



BD86/1/D14

PROJECT SUMMARY

<u>PROJECT TITLE</u>	Training Modules	A) Marine Affairs B) Maritime Law
<u>IMPLEMENTING AGENCY</u>	ICOD and the World Maritime University (WMU)	
<u>DELIVERY</u>	A) May 25-30, 1986 B) June 30 - July 4, 1986	
<u>DURATION</u>	2 years	

SUMMARY

The World Maritime University (WMU) is an institution established in Malmo, Sweden under the auspices and aegis of the International Maritime Organization to meet the needs of developing countries' senior experts and administrators involved in maritime transportation.

At the December Board Meeting, ICOD received approval in principle to collaborate with the WMU to organize and deliver:

A) a one week interdisciplinary training module with accompanying teaching materials in marine affairs as a compulsory course for all incoming students. This course will be an additional component to the curriculum, expanded at the behest of alumni who identified the need for a course in integrated ocean use management as vital for the effective performance of their jobs in their home country following graduation; and

B) a one week training module with accompanying teaching materials in international maritime law for the first year class.

Attached is a copy of the course outlines.

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FINANCIAL IMPLICATIONS

ICOD Contribution:

Marine Affairs Course	\$30,000.00
International Maritime Law Course	\$15,000.00
Total for 1986	<u>\$45,000.00</u>

WMU Contribution:

Accommodation for lecturers, \$34.00 (180 SEK) per day per lecturer food allowance contribution, local transportation, secretarial and administrative services and co-ordinating efforts	\$20,000.00
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RECOMMENDATION

It is submitted that this proposal receive final approval from the ICOD Board of Directors.

ESM/mp

February 10, 1986

COURSE: MARINE AFFAIRS

DATE: 25 - 30 May 1986

OBJECTIVE:

To be an interdisciplinary, multi-sectoral introduction to ocean uses, management and development for all first-year students. Course to be as scientific as necessary, as practical as possible.

PARTICIPANTS' NEEDS:

In order to assist lecturers' ability to address students' needs and interests, questionnaires on students' country of origin, position, and marine related problems shall be completed upon admission and available to lecturers by March 15th.

STRUCTURE:

The Marine Affairs Course will be an intensive one-week module consisting of 4 periods per day:

I	08.30 - 10.10	III	13.30 - 15.10
	10.10 - 10.30 Break		15.10 - 15.30 Break
II	10.30 - 12.30	IV	15.30 - 17.30
	12.30 - 13.30 Lunch		

The daily time-table may vary, however, depending on lecturers and program.

It is envisaged that lecturers will include films, slides, case studies, simulation exercises and small group discussions.

Each evening there will be an optional program consisting of films, slides, etc., and informal discussions with the lecturers.

LECTURERS:

- It is hoped that the lecturers will be available for the whole week and will participate as group leaders and commentators in sessions where they are not the principle professor.

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- Course Co-ordinators are Evelyne Meltzer, ICOD, and Gunther Zade, WMU.

LANGUAGE:

English is the official language at WMU for both instruction and course materials.

MATERIALS:

Professors are requested to provide a written copy of their lectures together with suggested supplementary readings by March 30. In addition, glossary of terms, bibliography, case studies, simulation exercises, handouts and other material you may wish to include in the study guide will be prepared for distribution prior to the course. The teaching material will be translated into French and Spanish for distribution later in the school year.

As ICOD will be making a donation to the WMU library, professors are also requested to provide a list of reference books for ICOD and WMU consideration.

Audio-Visual equipment will be provided by WMU as required.

ASSESSMENT:

Professors are requested to prepare examination questions and model answers by August 1986. Students will be examined at the conclusion of the first semester.

CEREMONY:

WMU will host an Inaugural Ceremony Sunday May 25, 1986 from 20.00 - 22.00 hours at which time the Secretary-General of IMO, or his representative, the Canadian Ambassador to Sweden, and the President of ICOD will be in attendance.

All lecturers will be introduced during this ceremony.

COURSE: OCEAN USE AND MARINE AFFAIRS

25 - 30 May 1986

<u>Date & Time:</u>	<u>Subject:</u>	<u>Lecturer:</u>
Sunday p.m. 25 May 20.00	CEREMONY	
Monday 26 May	1.0 <u>The Ocean Environment</u>	
08.30-10.10	1.1 Meteorology & Oceanography	Kullenberg
	2.0 <u>Ocean Resources and Their Exploitation</u>	
10.30-12:30)	2.1 Introduction	Crutchfield
)	2.2 Resource Economics & Management Principles	Crutchfield
13.30-16.30)	2.30 Ocean Trade	Couper
)	2.31 History Development - Global Approach	Couper
)	2.32 Ports	Couper
)	2.33 Ships and Cargoes	Couper
)	2.34 Routes	Couper
16.30-16.45	2.4 Communications/Cables/Pipelines	Couper
16.45-17.30	2.5 Geopolitics	Roth
Tuesday 27 May		
08.30-17.30	2.6 Living Resources	Lucas

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<u>Date & Time:</u>	<u>Subject:</u>	<u>Lecturer:</u>
Wednesday		
28 May		
08.30-16.00	2.7 Non-Living Resources	Harrison
16.00-17.00	2.8 Alternate Energy	Harrison
17.00-17.30	2.9 Tourism/Recreational Activities	Levy
Thursday		
29 May		
	3.0 <u>Hazards & Hazard Prevention Fighting</u>	
08.30-09.30	3.1 Ship Casualties, Safety of Navigation	Zade
09.30-11.30)	3.2 Pollution, Waste Disposal Management	Crutchfield
	3.3 Ocean Dumping, Nuclear Waste	Kullenberg
11.30-12.30)	3.4 Environmental Impact Assessment	
	4.0 <u>Administrative and Legal Aspects</u>	
13.30-14.00	4.1 Scientific Research	Gold
14.00-15.10	4.2 Law of the Sea	Gold
15.30-16.30	4.3 Private and Public Maritime Law	Gold
16.30-17.30	4.4 National and International Maritime Administrative Questions	WMU
Friday		
30 May		
a.m.	5.0 <u>Sea Use Planning/Coastal Zone Management</u> Consequences, impacts, policy options	Levy
p.m.	5.1 Institutional Development	
	5.2 International Co-operation	
	5.3 Panel Discussion	

PROFESSORS
MARINE AFFAIRS MODULE
MAY 25 - 30 1986

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OUTLINE

BASIC PRINCIPLES IN INTERNATIONAL MARITIME LAW

A Course Module for Presentation at the World Maritime University (WMU), Malmo, Sweden, sponsored by the International Centre for Ocean Development (ICOD) of Canada.

Course Co-ordinator: Prof. Edgar Gold, Professor of Maritime Law, Dalhousie University, Halifax, Canada. Vice-President, Canadian Maritime Law Association and Visiting Professor of Maritime Law, WMU.

This course is designed to provide the whole WMU class with a basic understanding of the general principles of international maritime law in their first year of study. The course will be based on the provisional series of maritime law lectures, given since 1983 at the WMU, which have clearly demonstrated the need for a basis in maritime law as part of the WMU curriculum. Furthermore, given the future decision-making positions in the maritime field to be occupied by many WMU graduates, a good base of knowledge of international maritime law is expected to be quite essential.

The 1986 course will be sponsored by the International Centre for Ocean Development (ICOD), established by the Government of Canada to assist developing countries in strengthening their expertise in all aspects of marine affairs, particularly in the implementation of the new law of the sea.

The 1986 course will be presented during the week of 30 June-4 July by four lecturers all with wide experience in the field. In addition to the Course Co-Ordinator these will be :

Professor Dr. Francesco Berlingieri
President, Comité Maritime International. Professor of
Maritime Law , University of Genoa,
Genoa, Italy

Professor Dr. Jerzy Mlynarczyk
Director, Institute of Maritime Law
University of Gdansk and
President, Polish Maritime Law Association,
Gdansk, Poland

Mr. Sven-Henrik Svensen
Assistant Director and Head of Legal Department,
Assuranceforeningen Gard Protection & Indemnity Association,
Arendal, Norway

PROVISIONAL LECTURE SCHEDULE

Monday, 30 June

0900-1000:

1. The ICOD Opening Lecture in International Maritime Law :
The Present Status of International Maritime Law :
Prof.Berlingieri

1100-1200:

- 2.The Unification of Maritime Law through the Comité Maritime International: Prof.Berlingieri

1430-1600:

- 3.Maritime Law--Origins, Historical Development and General Characteristics: Prof.Gold

Tuesday, 1 July

0900-1030:

- 5.Legal Aspects of Ship Ownership and Operation I : Prof.Gold

1100-1230:

- 6.Legal Aspects of Ship Ownership and Operation II : Prof.Gold

1330-1500:

7. Carriage of Goods by Sea--Introduction: Prof. Mlynarczyk

1530-1700:

8. Carriage of Goods by Sea II: Prof. Mlynarczyk

Wednesday, 2 July

0900-1030:

9. Carriage of Goods by Sea III: Prof. Mlynarczyk

1100-1230:

10. Legal Aspects of Navigation and Safety at Sea--Marine
Collisions and other Accidents: Prof. Gold

1330-1500:

11. Legal Aspects of Navigation and Safety at Sea--Marine
Pollution: Prof. Gold

1530-1700:

12. Legal Aspects of Navigation and Safety at Sea--Marine
Salvage and Damage Liability: Prof. Gold

Thursday, 3 July 1986

0900-1030:

13. Marine Insurance--Introduction : Prof. Gold

1100-1230:

14. Marine Insurance--Market Operation: Mr. Svensen

1330-1500:

15. Marine Insurance--P. & I. Operations: Mr. Svensen

1530-1700 :

16. Marine Insurance--Cargo Claims : Prof. Mlynarczyk

Friday, 4 July

0900-1030:

17. The Settlement of Maritime Disputes I : Prof. Mlynarczyk

1100-1230:

18. The Settlement of Maritime Disputes II : Prof. Mlynarczyk

1330-1500:

19. General Discussion/Question Period

NOTE: i. Lectures will generally be of maximum 60 minutes duration followed by a question/discussion period. ii. Designated discussion/question periods will be utilized as required. iii. Lectures will, in general, be based on INTERNATIONAL MARITIME LAW--BASIC PRINCIPLES, i.e. 1986 edition of the WMU/ICOD Lecture Notes and Materials. However, there may be some additional materials which will be handed out. It is expected that Professors Berlingieri and Mlynarczyk and Mr.Svensen will be preparing specific lectures.

(Feb.1986)

E. Gold



PROJECT SUMMARY

PROJECT TITLE: Assessment of Fisheries Information Management and Development Needs - South Pacific Region.

RECIPIENT/IMPLEMENTING AGENCY: Joint Project: ICOD and Forum Fisheries Agency

COMMENCEMENT/DURATION: Commencement upon approval. Completion by June 1986.

SUMMARY:

This proposal has two main components, to be carried out by a Canadian consultant in cooperation with a delegate from the region. The first, which originated with the Fisheries Committee of the South Pacific Forum, will comprise a study and report on the major information and research needs for support of fisheries development and management in the region. The study will focus on identifying the most effective allocation of regional and national resources to fisheries research programmes, as well as describing the current level and pattern of research activity.

The second component will involve an assessment of areas in which Canadian fisheries expertise - especially the skills of Canadian fishermen - might be utilized in the management and development of small-scale fisheries. This will include recommendations as to how ICOD can mobilize this expertise in Canada.

JUSTIFICATION IN ICOD MANDATE:

The project contributes to the ICOD mandate in three ways:

- "improved management and utilization of ocean resources" will be supported through clarification of research and management needs;
- use of "expertise of people and institutions in Canada" will be facilitated through the small-scale fishermen component;
- "support for research in the field of ocean resource development" is provided in a cost-effective manner, through support for the rationalization of research objectives and needs.

ADVANTAGES/BENEFITS:

- 1) Allows for a relatively broad impact for a small investment, in that regional research priorities will be clarified and rationalized.



- 2) Provides a useful follow-on for existing ICOD surveillance project.
- 3) Supports additional ICOD programme development through use of consultant in assessment of small-scale fishery programme.

DISADVANTAGES:

- 1) Possible appearance of heavy ICOD effort in South Pacific region.

RELATION TO OTHER PROJECTS:

* This project resulted in part from contacts made through development of the FFA surveillance programme. It will also directly affect the conduct of research projects throughout the region, and contribute to the development of a future ICOD initiative in the area of small-scale fisheries assistance.

FINANCIAL IMPLICATIONS:

The project involves the following costs (including 10% contingency):

- | | |
|---|----------|
| 1) ICOD contribution (consultant, travel) | \$54,060 |
| 2) FFA contribution | \$37,740 |

Conditional upon the project starting date, it is expected that approximately 50% of the costs will be incurred in fiscal 1985-86.

EVALUATION/RECOMMENDATIONS:

It is proposed that the Board approve this project.

ADVANTAGES AND BENEFITS

- 1) The programme is designed to increase availability of high protein food for the population.
- 2) The programme will increase utilization of a presently under-utilized resource base.
- 3) The programme may promote the development of infrastructural links and stronger ties between coastal communities and larger urban centres.
- 4) Methods developed through this programme can be easily transferred to other Caribbean states.
- 5) All three ICOD divisions would be actively involved in the programme.
- 6) The programme would be self-supporting by the end of ICOD involvement.

DISADVANTAGES

- 1) Capital expenditures are considerable given the overall size of the programme.
- 2) Though the programme has regional implications, it is essentially a bilateral programme.

RELATIONSHIP TO OTHER PROJECTS

IDRC is presently engaged in an aquaculture research programme in Cuba. Their expertise in this area could be of assistance in the ICOD programme.

This project will also have positive implications for the OECS Fisheries Desk. The Desk might act as a mechanism for transferring the aquaculture systems and methods developed in Cuba to other regions of the Caribbean.

FINANCIAL IMPLICATIONS

Draft proposals would involve the following total expenditures for ICOD:

1) 1987	\$ 140,300
2) 1988	174,400
3) 1989	105,500
4) 1990	66,800
5) 1991	33,400
Total 5 years	\$ 520,400

A more detailed budget, including Cuban contributions, for the separate components, is attached. It is expected that these costs could be reduced by reallocating some of the responsibility for equipment costs to the Cuban government.

EVALUATION/RECOMMENDATIONS

Subject to the qualifications stated above, the project would make a substantial contribution to the development of a presently underutilized resource, and assist in dissemination of aquaculture techniques in the Caribbean region.

The proposal does, however, raise two general issues:

- i) The provision of aid to "CIDA Category 4" countries (i.e. countries to which Canadian aid is not given).
- ii) The issue of bilateral as opposed to regional programmes.

It is recommended that the Board consider this proposal in light of the above issues, and if it agrees in principle, authorize ICOD staff to pursue further discussions with Cuban authorities to develop a Memorandum of Understanding for one or more components of the project.

Summary budgets for each component of the Coastal Aquaculture programme.

Component 1 Improvement of capabilities to produce mollusc seeding stock for coastal aquaculture systems

	<u>ICOD Contribution</u>	<u>Cuban Contribution</u>
1987	65,500	329,800
1988	104,800	205,900
1989		
1990		
1991		

Component 2 Development of multispecies coastal lagoon aquaculture systems.

	<u>ICOD Contribution</u>	<u>Cuban Contribution</u>
1987	53,400	586,760
1988	56,100	748,100
1989	57,500	792,100
1990	66,800	768,650
1991	33,400	586,760

Component 3 Development of nearshore finfish cage-culture systems.

	<u>ICOD Contribution</u>	<u>Cuban Contribution</u>
1987	21,400	44,000
1988	13,300	74,800
1989	48,000	82,600
1990		104,100
1991		113,400

tribution and follow-up.

DISADVANTAGE:

Capital expenditure is considerable, given the overall size of the programme.

RELATIONSHIP TO OTHER PROJECTS

PROJECT SUMMARY

PROJECT TITLE: Teaching Materials to Train Trainers
IMPLEMENTING AGENCIES: ICOD, UNU, IOI, National Film Board of Canada
COMMENCEMENT/DURATION: Autumn, 1986. Four years.

SUMMARY

ICOD has as long-standing interest in developing a set of books and audio-visual aids to send to institutions in developing countries to assist them to develop their own training programmes.

A great deal of work has already been undertaken by other institutions in this direction. Costs could be reduced and distribution enhanced if this project were undertaken on a cooperative basis, in connection with ongoing programmes and utilizing existing materials.

ICOD support should consist of:

- providing consultants;
- providing funding

JUSTIFICATION OF ICOD MANDATE:

The Project contributes to the fulfilment of the ICOD mandate in the following ways:

- "improved management and utilization of ocean resources;"
- enhancement of "indigenous expertise"
- multiplier effects of training effort
- "utilization of Canadian expertise" through the use of consultants and the National Film Board.

ADVANTAGES AND BENEFITS

- 1) The programme is designed to improve ICOD's own training efforts as well as to facilitate follow-up and spin-off effects.
- 2) Co-operation with other institutions and ongoing programmes greatly reduces cost, guarantees better quality, and facilitates dis-



PROJECT SUMMARY

<u>PROJECT TITLE</u>	Training Module (s)	1) Marine Affairs 2) Maritime Law 3) Law of the Sea
<u>IMPLEMENTING AGENCY</u>	ICOD and the World Maritime University	
<u>COMMENCEMENT/DURATION</u>	Immediate, for delivery prior to October 1986. Duration: 2 years	

SUMMARY

The World Maritime University (WMU) is an institution established in Malmo, Sweden under the auspices and aegis of the International Maritime Organization to meet the needs of developing countries' senior experts and administrators involved in maritime transportation.

The WMU has requested that ICOD design and deliver a short interdisciplinary training module with accompanying teaching materials in marine affairs (30-35hrs) as a compulsory course for all incoming students. This course would be an additional component to the curriculum, expanded at the behest of alumni who identified the need for a course in integrated ocean use management as vital in the performance of their jobs in their home country.

The WMU has requested that ICOD also assist in the development of two other training modules - in international maritime law and law of the sea together with accompanying teaching materials. The maritime law course (15-20hrs) is currently offered to all incoming students but requires formalization and course materials. The law of the sea module (30-36hrs) is an elective offered to second year students which was run as a pilot program last year. The WMU has proposed that ICOD develop and produce this training module commencing in 1986.

JUSTIFICATION IN ICOD MANDATE

Support for the "development of indigenous expertise and institutions in developing countries in order to increase the capacities of developing countries in integrated ocean use management."

"Development and sponsorship of training programs... relating to ocean resource development."

ADVANTAGES/BENEFITS

- i) Enables ICOD to launch its training program in collaboration with an established and reputable maritime educational institution devoted to Third World concerns.



PROJECT SUMMARY: Training Module(s)

- 2) Demonstrates the need for training in integrated ocean use management proposed in the first corporate plan.
- 3) Provides ICOD with a forum to develop and evaluate its standardized Marine Affairs course and accompanying course materials.
- 4) Enables ICOD to develop and evaluate course materials in marine affairs, maritime law and law of the sea for dissemination to other Third World institutions.
- 5) Provides ICOD with an international forum for promoting its training and other programs.

DISADVANTAGES

- 1) Request received from an institution and not developing countries.

FINANCIAL IMPLICATIONS:

The following costs are a preliminary estimation:

ICOD Contribution:

Marine Affairs Course	\$25,000.00
International Maritime Law Course	\$10,000.00
Law of the Sea Course	<u>\$20,000.00</u>
Total	<u>\$55,000.00</u>

WMU Contribution:

Accommodation for lecturers, part-time co-ordinator, local transportation, secretarial and administrative costs. \$18,000.00

EVALUATION /RECOMMENDATIONS

It is submitted that this proposal receive approval in principle from the ICOD Board of Directors. A formal proposal will be submitted to the Executive Committee in due course.

IOI BURSARIES: The IOI has conducted a successful series of summer courses in ocean management over the past years. Such a course could provide a useful adjunct to ICOD's technical assistance programme. Although the costs per student require further investigation, the Centre proposes to sponsor four ICOD selected students at funding levels which reflect real costs of attending the course.

WMU SCHOLARSHIPS: The WMU is a well-established marine institution, broadly supported by the international community, with an excellent reputation. The provision of ICOD scholarships to students wishing to attend WMU will provide the Centre with the opportunity to support study in marine technology and administration fields. Additionally, it permits cooperation and association with an established development training institution.

RECOMMENDATION

Subject to further investigation by ICOD staff to determine the value of individual awards, it is recommended that the Board of Directors approve this proposal.



BD85/4/D52

Project Summary

PROJECT TITLE: Scholarship Programme (revised)
IMPLEMENTING AGENCY: ICOD In-House Project
COMMENCEMENT: 1985-86
DURATION: Five Years
COST: Year I: \$380,000
Five Year Total: \$3,230,000

At the August 13, 1985 meeting, the Board of Directors gave approval in principle for the initiation of a scholarship programme (Project Proposal No. 4). That proposal was considered as having received approval for one year. The proposal now put forward is for the establishment of a formal scholarship programme to replace the ad hoc programme.

SUMMARY

Background:

The first ICOD scholarship programme was informally initiated in late August and was open to students from developing coastal states presently studying at, or accepted by, Canadian universities or research institutions. Acceptable fields of study included those disciplines which could potentially contribute to the development and management of ocean resources. With a few exceptions, ICOD awards represented partial financial support.

Based on experience gained during the first programme, a discussion paper was prepared outlining a proposal to establish a formal ICOD scholarship programme. Following circulation of the paper, meetings were held with other scholarship granting agencies and university representatives to critically review the proposal. The ICOD fellowships proposed below, reflect this consultation.

Scholarship Programme Proposal:

The proposed ICOD scholarship programme consists of three elements which are described below.

1 ICOD Fellowships \$260,000(1986-87)

Objective: to provide full financial support for students of high academic standing, from developing coastal states, who wish to pursue a master's degree in a marine-related field of study at a Canadian university. Students already studying in Canada when the formal programme is initiated in the 1987-88 year, would

not be eligible for fellowships. (For the 1986-87 year, it is proposed that ICOD provide limited support for those students continuing their studies at a Canadian university, or research institution, who were assisted under the ad hoc programme in 1985-86. Support would be provided only for those students maintaining a suitably high academic standing and who require supplementary funding.)

Selection Criteria: Selection will be made on an assessment of academic standing (50%), the relevance of the candidate's field of study to ocean resource development (25%) and the individual's potential impact on the body of expertise in the country of origin (25%).

Number of Awards: 15 new awards annually.*

Value: up to \$22,000 per annum, including travel expenses.*

Duration of Award: 2 years.

Start Up Date: 1987-88 academic year.

2 International Ocean Institute (IOI) Bursaries \$40,000

Objective: to provide financial support for ICOD selected students from coastal developing states to attend the IOI summer course in ocean management.

Selection: ICOD.

Number of Awards: 4 per annum.

Value of awards: up to \$10,000, including travel expenses.

Start Up Date: 1986.

3 World Maritime University (WMU) Scholarships \$40,000

Objective: to provide financial support for students from coastal developing states wishing to pursue studies at the World Maritime University.

Selection: to be determined in consultation with the WMU.

Number of Awards: 2 per annum.

* The number of awards and the value of awards, based on CIDA and IDRC scales, are estimates and subject to change on the basis of further analysis.

Value of Awards: up to \$20,000, including travel expenses.

Duration of Award: 2 years.

Start Up Date: 1986-87 academic year.

JUSTIFICATION IN ICOD MANDATE:

- promotes and supports cooperation between Canada and developing states in field of ocean resources development.
- supports the development of indigenous expertise in coastal developing states in integrated ocean use management.
- sponsors training related to ocean resource development.
- supports, in a limited way, research related to ocean resource development.

ADVANTAGES:

- permits ICOD to sponsor individuals from coastal developing states to undertake study in a wide variety of marine related disciplines.
- an effective method of promoting the development of indigenous expertise in coastal developing states.
- permits the eventual development of an international network of ICOD alumni which could promote, and/or participate in, other ICOD projects abroad.
- allows ICOD immediate impact and visibility both in Canada and abroad.

DISADVANTAGES:

- selection criteria are difficult to determine and assess.
- administration and management of such a programme is complex and will place substantial demands on staff resources relative to the number of scholarships.

FINANCIAL IMPLICATIONS - YEAR I: (1986)

1	ICOD Fellowships (ad hoc programme)	260,000
2.	IOI Bursaries	40,000
3.	WMU Scholarships	40,000
4.	Related Expenses (Selection Committee, recruitment, information package, travel, etc.)	40,000
	TOTAL	380,000

FINANCIAL IMPLICATIONS - 5 YEARS:

Year I	II	III	IV	V
380,000	450,000	750,000	800,000	850,000
5 YEAR TOTAL	\$3,230,000			

EVALUATION:

The Scholarship Programme given Board approval in August 1985 included ICOD-sponsored programmes, IOI courses and general academic courses. The project received a five year budget approval of \$1,500,000. The revised scholarship programme now submitted does not include scholarship support for ICOD short courses or for the diploma in marine affairs.

ICOD FELLOWSHIPS The ad hoc scholarship programme in 1985-86 permitted awards to be made to students in various marine-related fields of study. The programme provided the Centre with a high degree of visibility and the reaction of recipients, their embassies and the university community was most positive. Numerous requests for the continuation of this type of programme have been received.

Notwithstanding the popularity of the ad hoc programme, it is the view of both ICOD personnel and university spokesmen, that it should be replaced by a formal fellowship programme. A formal programme would allow ICOD to better apply its own criteria in selecting students, maximize the development impact of the programme and permit the establishment of an effective administration process. It is, therefore, proposed that the Centre grant full fellowships at the masters level, based on academic excellence and other considerations. It is notable that CIDA and IDRC will substantially increase their budgetary allocations for foreign student study at Canadian universities and that representatives of these agencies indicated full support for the ICOD proposal given its particular marine focus.



PROJECT SUMMARY

PROJECT TITLECoastal Aquaculture Development
in the CaribbeanRECIPIENT/IMPLEMENTING AGENCY

Ministry of Fisheries, Cuba

SUMMARY

This programme originated with the Cuban Ministry of Fisheries, and was first submitted to ICOD in December 1984. It is a three part coastal aquaculture development scheme, supported by the Cuban Government, which has the objective of increasing the availability of food for the population. The three components are:

- improvement of local capabilities for the production of seeding stock of various mollusc species;
- development of methodologies needed to establish multi-species coastal lagoon aquaculture systems;
- transfer and development of techniques used in near-shore cage culture of finfish.

ICOD support will consist of:

- providing consultants to assist in developing the methodologies necessary for optimizing the productivity of lagoons, establishing hatcheries for molluscs, shrimps, and selected finfish as well as advising on cage culture systems in the nearshore;
- providing training on the techniques used in lagoon and nearshore aquaculture in order to develop a core of indigenous aquaculture experts;
- providing funds for the purchase of hatchery equipment which is necessary for a sustained aquaculture programme.

JUSTIFICATION IN ICOD MANDATE

The Project contributes to the fulfillment of the ICOD mandate in the following ways:

- "improved management and utilization of ocean resources, particularly as a source of food";
- "indigenous expertise" will be supported by the training component of this project;
- "utilization of Canadian expertise" through the use of consultants involved in aquaculture development.