



CCOP

**The Committee for Co-ordination of Joint Prospecting
for Mineral Resources in Asian Offshore Areas**

1993 ANNUAL REPORT

(1 January - 31 December 1993)

The Committee for Co-ordination of Joint Prospecting for Mineral Resources in Asian Offshore Areas (CCOP)

ANNUAL REPORT

(covering the period 1 January - 31 December 1993)

PART I ADMINISTRATION

Finance

During 1 January - 31 December 1993, the outstanding member country's contribution for 1992 was received from Vietnam (US\$ 10,000). For 1993, annual cash contributions have been received from the following member countries (see Annex I): China (US\$ 50,000), Indonesia (US\$ 50,000), Korea (US\$ 40,000), Malaysia (US\$ 50,000), Philippines (US\$ 25,660.19), Thailand (US\$ 30,000) and Vietnam (US\$ 15,000). The total cash contribution received as of 31 December 1993 was US\$ 270,660.19 (excluding Japan's contribution made through ESCAP in the amount of US\$ 113,000.00). The financial status as of 31 December 1993 shows a favourable balance of US\$ 331,770.69 from the various funding sources as shown in Annex II.

Programme Support

CCOP has received financial support for its programme and activities from its cooperating countries/organizations, namely France, Japan, Norway, the U.K. and CONOCO.

France provided the service of Dr. H. Fontaine to study the PreTertiary sediments in Malaysia and Thailand. The results of this study on Permian Corals of Thailand will be published in the Technical Bulletin Series (TB. 24).

Japan has increased its support to CCOP's activities as proposed by the Secretariat to a total of US\$ 113,000 reflecting an increment of US\$ 43,000 from the previous year. The funds have been used principally for activities on the three projects: Regional Heat Flow Mapping, Offshore Geothermal Survey and Thermal Modelling, and Digital Compilation of Regional Geoscientific Maps in East and Southeast Asia. In addition, she has continued to provide two non-reimbursable experts: one senior Heat Flow Expert, and one Senior Geophysicist to the Secretariat who completed their tour of duty in August and September, respectively. One expert has been seconded in replacement of these two experts to coordinate the project on digital compilation of geological map. She also seconded resource persons to various activities. Funding was also used to sponsor the member country personnel to attend workshops and training.

Norway has continued to support the CCOP activities under the CCOP-NORWAY cooperation agreement of 1992-1994 (total US\$ 1,123,000). Funding support is for the Oil and Gas Resource Management (OGRM), Oil Drift Modelling Workshop, Exploration Promotion Forum, and the service of expert on petroleum geology to the Technical Secretariat.

The U.K. granted US\$ 169,000 for the projects: "Thermal Modelling of Petroliferous Basins (HOTPOT)", and "Seismic Sequence Stratigraphy" and "Shallow Seismic Atlas" in 1993. The amount of US\$ 100,000 has also been granted to support database development under the "Geoscience Databases for Coastal Zone Management" project during 1993-1996. The first phase of the project is due to start in early 1994.

Conoco Oil Company of U.S.A. has continued to grant US\$10,000 for 1993 in addition to the same amount granted in 1992 to support the continuation of the Pre-Tertiary Sedimentary Rocks Database project.

On other projects whose funding has not been secured, the Secretariat made ardent efforts to enhance mutual understanding and explore prospects for cooperation with countries and organizations who were potential donors and cooperative partners and to seek funding support for CCOP programmes. Three cooperation-promotion missions were carried out during the reporting period:

- o Mission to Finland, Sweden and Denmark (March-April, 1993) in conjunction with the mission to attend the TRADP Workshop in Helsinki to promote CCOP among Scandinavian countries;
- o Mission to the Asian Development Bank Headquarters, Manila, the Philippines (27-30 April 1993) to submit proposals: 1) COASTPLAN, 2) An Integrated Resource Assessment of Coal and Relevant Resources in East and Southeast Asia; and

Institutional Aspects

The Technical Secretariat has continued to maintain its present office premises on the second floor of the Offshore Mining Organization (OMO) Building which has been kindly provided by the Royal Thai Government.

Cambodia, after its long absence, has become active again in CCOP activities as well as reinforced the institutional foundation of CCOP. Denmark and Sweden have joined CCOP as new Cooperating Countries in June and July 1993, thereby making the Cooperating Countries of CCOP totalling 14. **Dr. Ole Winther Christensen**, Director of the Geological Survey of Denmark was designated Permanent Representative of Denmark to CCOP. **Dr. Naz Ahmed Shaikh**, Director of Geological Survey of Sweden was designated Permanent Representative of Sweden.

Personnel

1. **Prof. He Qixiang**, Regional Expert on Petroleum seconded by the Chinese Government, was granted extension of his terms for another two years (1994-1996).
2. **Mr. Mathias Lueg**, Associate Expert provided by the Government of Germany to CCOP on a non-reimbursable basis through the UN Associated Expert Programme since 5 April 1991, completed his service to CCOP on 4 July 1993. He has been subsequently hired to serve CCOP on consultancy contract to assist in the cooperation promotion mission and project formulation.
3. **Dr. Osamu Matsubayashi**, a non-reimbursable expert from the Geological Survey of Japan serving CCOP as Senior Heat Flow Expert since 2 September 1991, left CCOP on 31 August 1993 upon completion of his service.
4. **Dr. Yasukuni Okubo**, Expert on Compilation of Regional Geoscientific Maps, seconded by the Government of Japan to CCOP on a non-reimbursable loan basis, assumed duties at the Secretariat on 26 October 1993.
5. **Mr. Seikichi Kamata**, Senior Geophysicist, seconded by the Japanese Government, completed his two years' service on 30 September 1993.
6. **Ms. Tasanee Jarusombati**, Librarian, resigned on 30 June 1993. No replacement has been recruited for this position.
7. **Dr. Henri Fontaine**, whose service has been provided by France, attended the IGCP306 in Hanoi during 8-14 November 1993, and returned to the region on 15 November 1993 to carry out field work in Thailand and Malaysia.
8. **Mr. Einar J. Asphaug**, Oil and Gas Resource Management Programme (OGRM) Coordinator, seconded by the Norwegian Government since 6 January 1992 has continued to serve the Technical Secretariat on a full time basis.

As of 31 December 1993, the composition of the Secretariat's full-time workforce includes 6 professional staff and 10 support personnel, totalling 16.

Cooperation with National and International Bodies

The Secretariat has continued its longstanding cooperation with other national and international organizations. This included the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP), the United Nations Environment Programme (UNEP), the Circum-Pacific Council for Energy and Mineral Resources (CPCMR), the Intergovernmental Oceanographic Commission (IOC) of UNESCO, the ASEAN Council on Petroleum (ASCOPE).

The Technical Secretariat attended the 49th ESCAP Commission Session in Bangkok during 21-29 April 1993 and the First Session of the ESCAP's Committee on Environment and Sustainable Development, Bangkok, 4-8 October 1993. The Secretariat's experts were invited to be resource persons in many training, workshops as detailed in part II of this report.

CCOP was also represented at following events:

1. *The 2nd Session of the IOC Sub-Commission for the Western Pacific (SC-WESTPAC-II)*, Bangkok, 18-28 January 1993;
2. *The Tenth meeting of the Coordinating Body on the Seas of East Asia (COBSEA) on the East Asian Seas Action Plan*, Bangkok, 9 - 10 July 1993; and
3. *The ASCOPE-CCOP-NORWAY Intersecretariat Meeting*, Surabaya, Indonesia, May 5, 1993.

PART II TECHNICAL ACTIVITIES

The technical activities carried out under the three sectors: Energy, Mineral and Coastal Zone during the reporting period are as follows:

Energy Sector

I. Oil and Gas Resource Management (OGRM):

1. Compilation and digitization of the Time Slice Map Series (Phase II maps) and Play Atlas;
2. *The Second meeting of the OGRM Working Group*, 26-28 May 1993, Bali, Indonesia;
3. Workshop on Prass I and FASPUM Calibration, 17-20 November 1993, Bangi, Malaysia;
4. Advisory services to member countries;
5. Oil drift modelling seminars; and
6. Preparations for the Exploration Promotion Forum 1994.

II. Regional Heat Flow Mapping:

1. Compilation of Regional Heat Flow Map;
2. *Symposium on Heat Flow Map, Geodynamic Implication and Maturity Modelling for Hydrocarbons*, 11-13 January 1993, Bangkok, Thailand;
3. The Second meeting of Heat Flow Coordinators, 14-15 January 1993, Bangkok, Thailand; and
4. The Third meeting of Heat Flow Coordinators, 11-12 November 1993, Bali, Indonesia

III. Offshore Geothermal Survey and Thermal Modelling in Pilot Areas:

1. In-house training on thermal modelling, 16-25 February 1993; and
2. Shallow Sea Geothermal Survey and on-board training, May-June 1993, Pangnga Bay, Thailand.

IV. Thermal Modelling of Petroliferous Basins

The compilation of Manual and User-Guide to HOTPOT Software was completed in May 1993 and the HOTPOT diskette and manual were distributed to member countries subsequently.

V. East Asia Geotectonic Map

Prof. Tadashi Sato, the Chief Compiler visited China, Malaysia, Thailand and Vietnam and discussed the inconsistency of the stratigraphic-tectonic units across the national boundaries. The map is expected to be finalized in 1994.

VI. Pre-Tertiary Sedimentary Rocks:

1. Consultancy service and field investigation were conducted by Dr. Fontaine in Malaysia and Thailand; and
2. Data acquisition and compilation for the database on pre-Tertiary rocks has been continued during the year.

VII. Workshops on Oil Drift Modelling conducted by Dr. J. N. Langfeldt, with support of the Norwegian Government in China, Indonesia, Malaysia, Philippines, Thailand, and Vietnam in September and October 1993.

Mineral Sector

I. Shallow Seismic Atlas for Coastal Water in East Asia

The Compilation of the atlas continued during the year and the *Workshop on Interpretation of Shallow Seismic Profiles* was held in Bangkok, Thailand on 17-21 May, and attended by the participants from Cambodia, China, Indonesia, Malaysia, Philippines, Thailand and Vietnam.

PART II TECHNICAL ACTIVITIES

The technical activities carried out under the three sectors: Energy, Mineral and Coastal Zone during the reporting period are as follows:

Energy Sector

I. Oil and Gas Resource Management (OGRM):

1. Compilation and digitization of the Time Slice Map Series (Phase II maps) and Play Atlas;
2. *The Second meeting of the OGRM Working Group*, 26-28 May 1993, Bali, Indonesia;
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II. The Workshop on Computerization of Marine Geological/Geophysical Data for Mapping, was held in Bangkok, Thailand on 16-20 August to introduce the techniques in SPDATA Software developed by Dr. T. Ishihara in 1992.

III. Digital Compilation of Regional Geoscientific Maps of East and Southeast Asia

The project aims at compiling a regional geological map during its first phase (1993 - 1995). A working group has been established and is composed of national compilers of Cambodia, China, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Thailand and Vietnam with Dr. Koji Wakita as Chief Compiler and Dr. Y. Okubo as General Coordinator. The first meeting of the working group was convened in Bangkok, Thailand on 8-10 December 1993.

Coastal Zone Sector

The activities planned under this sector for 1993 were not implemented due to the unavailability of funds. Great efforts were made in seeking funding support for the activities and project proposals under this sector. The U.K. has approved a project entitled Geoscience Database for Coastal Zone Management to be implemented under the COASTPLAN umbrella with the support and assistance of BGS.

Other activities which were not in the workplan have been carried out. This includes participation of CCOP in the following activities:

1. Mr. Mathias Lueg, the Coastal Zone Sector Coordinator was invited by ESCAP to attend as resource person, the *Regional Workshop on Computer Applications for Groundwater Assessment and Management* in Bangkok, 19-28 January;
2. Mr. Lueg, on behalf of CCOP, at the UNDP's request, attended the *Resource, Industry and Environmental Workshop* which was part of the Tumen River Area Development Programme (TRADP) in Helsinki, Finland on 16-19 March. After the workshop, he undertook an assistance promotion mission to CCOP in Finland, Sweden, and Denmark;
3. Mr. Lueg, on behalf of CCOP at the request of the Makong Committee, gave lectures on numerical ground water modelling at the *Training Course on Computer Application on Groundwater Database and Computation*, 14 - 18 June 1993, Vientien, Lao P.D.R.; and
4. Prof. He Qixiang, the Regional Expert on Petroleum attended the *International Forum for Natural Hazards Mapping in East Asia*, Tsukuba, 22-25 June 1993.

Publications

During the reporting period, the Secretariat has implemented the publication policy which was approved by the Steering Committee at its 19th Meeting in Bangkok, June 1992 and relevant activities in line with the policy. The tasks included:

1. Production and sales of CCOP publications and data;
2. Promotion of the CCOP programmes: exhibitions, conferences, newsletter, flyers;
3. Improvement of computer facilities to upgrade the quality of documents and other output by making full use of desk-top publishing software and other relevant packages;
4. Inspection and clean-up of the store-house;
5. Disposal of old and out-dated publications according to the policy; and
6. Use of the policy's guidelines to set the price of publications.

Completed activities were the release for sale of the digital dataset of Total Sedimentary Isopach Map Offshore East Asia (printed format was previously released in 1991). On-going projects comprises: Magnetic Anomaly Map of East Asia; East Asia Geotectonic Map; OGRM Phase II Map; Play Atlas; Shallow Seismic Atlas; Technical Bulletin Vol. 24. The publication of 29th Annual Session Technical Proceedings has been postponed to 1994 due to funding constraints. Sales of Publications in 1993 amounted to US\$ 9,174.67.

Promotional Activities

Apart from the cooperation-promotion mission, the Secretariat also staged an exhibition and publication sales to promote the organization at the following events:

1. *SEAAOC'93*, Darwin, Australia, 3-5 August 1993; and
2. *ASCOPE'93 Conference and Exhibition*, Bangkok, Thailand, 2-6 November 1993.

STATUS OF MEMBER COUNTRIES' CONTRIBUTIONS RECEIVED
 For the period covering 1 January - 31 December 1993
 (amount in US Dollars)

Country	CASH CONTRIBUTIONS RECEIVED FROM MEMBER COUNTRIES	CASH CONTRIBUTIONS RECEIVED THROUGH ESCAP	TOTAL CONTRIBUTIONS	INCREASED AMOUNT
CHINA	50,000.00	0.00	50,000.00	10,000.00
INDONESIA	50,000.00	0.00	50,000.00	10,000.00
JAPAN	0.00	113,000.00 ²	113,000.00	43,000.00
KOREA	40,000.00	0.00	40,000.00	10,000.00
MALAYSIA	50,000.00	0.00	50,000.00	10,000.00
PAPUA NEW GUINEA	0.00	0.00	0.00	0.00
PHILIPPINES	25,660.19	0.00	25,660.19	5,660.19
SINGAPORE	0.00	0.00	0.00	0.00
THAILAND	30,000.00	0.00	30,000.00	0.00
VIETNAM	25,000.00 ¹	0.00	25,000.00	10,000.00
TOTAL	270,660.19	113,000.00	383,660.19	98,660.19

Notes:

¹ This amount represents Vietnam's contributions to CCOP for 1993 amounted to US\$15,000 and for her arrear contribution for 1992 amounted to US\$10,000, inclusive of US\$10,000 and US\$5,000 for increased contributions respectively.

² Thirteen percent administrative overhead charge to ESCAP to be deducted from this contribution.

CCOP Financial Status
as at 31 December 1993
(amount in US Dollars)

	Maintained at CCOP	Maintained at ESCAP	Total
1. Cash in Bank	307,941.61		330,400.77
French Fund	9,816.96		
UK Fund	8,387.05		
CONOCO Fund	7,264.08		
General Fund	282,473.52		
JECF Fund		22,459.16	
2. Cash in hand	395.26		395.26
Petty Cash	395.26		
Sub-Total	308,336.87		330,796.03
3. Receivables/(Payables)	10,773.45		974.66
From JECF Fund	9,798.79		
From Travel Agency	974.66		
Total	319,110.32	12,660.37	331,770.69

Notes : 1. Advance was made from the CCOP General Fund.

2. 13 percent as Admin. Overhead to ESCAP to be deducted from this amount.

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STATEMENT OF INCOME AND EXPENDITURE
for the period covering 1 January - 31 December 1993
(amount in US Dollars)

Receipts

Balance B/F (1 January 1993)		345,181.11
Member Countries' Contributions	270,660.19	
Interest Earned	16,227.93	
Proceeds from Sales of Publications	9,174.67	
Gain / Loss on Current Exchange	(1,253.15)	
Miscellaneous Income	31.06	294,840.70
Received from fund		
JECF	96,615.79	
CONOCO	8,400.00	
NORAD	62,811.97	
UNDP	14,572.79	
UK	11,104.41	193,504.96
Received Administrative Overhead from fund		
NORAD	42,756.60	
CONOCO	1,600.00	
UK	822.59	45,179.19
Total Receipts		<u>533,524.85</u>
Grand Total Receipts		878,705.96

Expenditures

Personnel Expenses :	
Salary	(173,293.34)
Overtime	(1,367.97)
Medical Expenses	(782.01)
Provident Fund	(12,083.88)
Living Allowance (taxes compensation for staff)	(9,883.80)
Staff Training	0.00
Staff Uniform	(1,465.62)
Temporary Assistant Allowance	(1,280.64)
	<u>(52,450.00)</u>
Total Personnel Expenses	(252,607.26)
Operating Expenses :	
Telex / Telegram	(730.05)
Postage	(5,081.20)
Gasoline	(1,232.25)
Water Supply	(911.05)
Electricity	(7,093.07)
Overseas Call	(2,220.89)
Local Call	(1,513.95)
Facsimile Charge	(6,600.12)

Stationery	(4,636.08)	
Office Supply	(1,622.97)	
Repair and Maintenance of Office Equipment	(3,097.89)	
Printing Cost	(2,316.69)	
Subscription Fees	(3,612.69)	
Visa and Reentry Fees	(527.98)	
Hospitality Expense	(1,436.56)	
Taxi Fare	(127.51)	
Auditing / Other Professional Fees	(316.21)	
Bank Charge	(178.88)	
Advertising Fees	0.00	
Honorarium	(200.00)	
Storage Rental	0.00	
Official Travel Expense	(22,875.22)	
Consultancy fees	(19,541.26)	
Insurance Expense	(2,179.83)	
Transportation and Freight Charge	(2,336.36)	
Purchasing of Office Equipment	0.00	
Meeting Expense	(39,983.14)	
Withholding Income Taxes	25.28	
Withholding Taxes	(28.61)	
Miscellaneous Expense	<u>(636.47)</u>	
Total Operating Expenses	(131,011.65)	
Total Expenses		(383,618.91)
Account Receivable	4,701.23	
Account Payable	0.00	
Suspense Accounts	<u>0.00</u>	4,701.23
Expenses supported from fund		
JECF FUND	(106,414.58)	
FRENCH FUND	(2,628.46)	
CONOCO FUND	(11,135.92)	
NORAD FUND	(60,990.11)	
UK FUND	<u>(10,282.34)</u>	
Total Expenses supported from fund		<u>(191,451.41)</u>
Grand Total Expenses		<u>(570,369.09)</u>
Balance as at 31 December 1993		<u>308,336.87</u>

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