



WORKSHOP ON COBALT-RICH CRUSTS AND THE DIVERSITY
AND DISTRIBUTION PATTERNS OF SEAMOUNT FAUNA
Kingston, Jamaica, 27-31 March 2006

PROVISIONAL AGENDA

Monday, 27 March 2006

09.00 – 10.30

REGISTRATION

10.30 – 11.00

Welcoming remarks and workshop objectives

*- Ambassador Satya N. Nandan, Secretary-General,
International Seabed Authority*

FRAMEWORK FOR THE PROTECTION AND CONSERVATION OF
THE NATURAL RESOURCES OF THE AREA AND THE PREVENTION
OF DAMAGE TO THE FLORA AND FAUNA OF THE MARINE
ENVIRONMENT

11.00 – 11.45

Draft regulations on prospecting and exploration for polymetallic sulphides and cobalt-rich ferromanganese crusts in the Area (ISBA/10/C/WP.1).

- Focus on crusts
- Framework for Environmental Protection
- Data to be provided by prospectors and exploration contractors
- Monitoring
- Decision-making

- Dr. Frida ARMAS-Pfirter, Legal and Technical Commission

11.45 – 12.15

C • O • F • F • E • E B • R • E • A • K

12.15 – 13.00

Recommendations of the ISA 2004 workshop for the establishment of environmental baselines at mine sites for cobalt-rich crusts and polymetallic sulphides.

- Framework for the protection of the marine environment at cobalt-rich crust mine sites
- Data to be provided by prospectors and exploration contractors
- Knowledge gaps to be addressed by 2006 workshop

*- Mr. Julian Anthony Koslow, Senior Principal Research Scientist
CSIRO Marine Research, Australia*

13.00 – 14.00

L • U • N • C • H

POTENTIAL ENVIRONMENTAL IMPACTS FROM EXPLORING FOR AND MINING COBALT-RICH CRUSTS

- 14.00 – 14.30 What are cobalt-rich crusts, why are they of interest to potential miners, how are potential commercial deposits geographically distributed, what kinds of fauna are known in these Areas?
- James Hein, U.S Geological Survey, California, U.S.A
- 14.30 – 15.00 What are the steps required to identify and mine a cobalt-rich crusts deposit?
• What types of equipment will be used for mining and transportation of ore?
• What types of impacts can be anticipated from mining?
-Professor Li Li, College of the Mechanical and Electronic Engineering Department of Central South University, Changsha, Hunan, People's Republic of China

GLOBAL RESEARCH EFFORTS

- 15.00 – 15.30 An overview of the Census of Marine Life's GenSeam project
- Malcolm Clark, Principal Scientist, Deepwater Fisheries, National Institute of Water & Atmospheric Research, Wellington, New Zealand
- 15.30 – 16.00 An overview of Seamounts Online and its application to the current problems.
- Karen Stocks, San Diego Supercomputer Center, UCSD, California, United States of America

16.00 – 16.30 **C · O · F · F · E · E B · R · E · A · K**

NATIONAL RESEARCH APPLICABLE TO THE INTERNATIONAL SEABED AUTHORITY'S FRAMEWORK

- 16.30 – 17.00 New Zealand Seamount Studies
- Ashley Rowden, National Institute of Water & Atmospheric Research, Wellington, New Zealand
- 17.00 – 17.30 French Seamount Studies
- Bertrand Richer de Forges, Centre IRD de Noumea, New Caledonia, France
- 17.30 – 18.00 Soviet Seamount Studies.
Tina Molodtsova, Shirshov Institute, Moscow, Russian Federation

Tuesday, 28 March 2006

- 09.00 – 09.30 Seamount Studies in the North Pacific.
- Amy Baco-Taylor, Woods Hole Oceanographic Institution, Maryland, United States of America
- 09.30 – 10.00 Seamount Studies in the Indian Ocean.
- Dr. Baban Ingole, Scientist, Biological Division, National Institute of Oceanography, India
- 10.00 – 10.30 European North Atlantic seamount studies..
- Bernd Christiansen, Universitat Hamburg, Germany
- 10.30 – 11.00 Seamount studies in the NW Atlantic.
- Les Walting, Professor of Oceanography, Darling Marine Center, University of Maine, Walpole, Maine
- 11.00 – 11.30 **C • O • F • F • E • E B • R • E • A • K**
- 11.30 – 12.00 Seamount ophiuroids: diversity, extent, reliability, and patterns of distribution and endemism.
- Tim O'Hara, Museum Victoria, Melbourne, Australia

SPECIES BASED RESEARCH

- 12.00 – 12.30 Seamount sponges: diversity, extent, reliability, and patterns of distribution and endemism.
- Thomas Schlacher, Senior Lecturer in Marine Science, University of the Sunshine Coast, Maroochydore, Queensland, Australia
- 12.30 – 13.00 Seamount corals: diversity, extent, reliability, and patterns of distribution and endemism.
- Dr Alex Rogers, Senior Research Fellow, Institute of Zoology, Zoological Society of London
- 13.00 – 14.00 **L • U • N • C • H**

OTHER TOPICS OF INTEREST

- 14.00 – 14.30 Genetic Studies of Seamount Faunas: Lessons for Dispersal, Colonization and Connectivity.
- Tim Shank, Woods Hole Oceanographic Institution, Maryland, United States of America
- 14.30 – 15.00 General Deep-sea biogeography - perspectives from the abyssal plain.
- Dr. Craig R. Smith, Professor, Department of Oceanography, University of Hawaii, USA
- 15.30 – 16.00 Modelling seamount diversity and biogeography.
- Derek Tittensor, Department of Biological Sciences, Dalhousie University, Halifax, N.S. Canada
- 15.30 – 16.00 **C • O • F • F • E • E B • R • E • A • K**

INFORMAL WORKING GROUPS

- 16.00 – 16.30 Formation of working groups and objectives of each group.
Working groups are:
- SW Pacific – a biogeographic synthesis of data from the region
 - NE Pacific – a biogeographic synthesis of data from the region
 - Atlantic – a biogeographic synthesis of data from the region
- Discussion Leader: Mr. Julian Anthony Koslow. Senior Principal Research Scientist, CSIRO Marine Research, Australia*
- 16.30 – 18.00 Working Groups Meet

Wednesday, 29 March 2006

- 09.00 – 11.00 Plenary meeting to discuss progress and determine whether biogeographic synthesis should be carried out on the global scale or for a reduced area of interest
Discussion Leader: Mr. Julian Anthony Koslow. Senior Principal Research Scientist, CSIRO Marine Research, Australia
- 11.00 – 11.30 C • O • F • F • E • E B • R • E • A • K
- 11.30 – 12.30 Working Groups Meet
- 12.30 – 13.00 Working Groups Meet.
- 13.00 – 14.00 L • U • N • C • H
- 14.00 – 16.00 Working Groups Meet
- 16.00 – 16.30 C • O • F • F • E • E B • R • E • A • K
- 16:30 – 17:30 Working Groups Meet
- 17.30 – 18.00 Plenary Meeting to Report on Progress
Discussion Leader: Mr. Julian Anthony Koslow. Senior Principal Research Scientist, CSIRO Marine Research, Australia

Thursday, 30 March 2006

- 09.00 – 11.00 Global and/or pan Pacific biogeographic analysis.
- 11.00 – 11.30 C • O • F • F • E • E B • R • E • A • K
- 11.30 – 13.00 Global and/or pan Pacific biogeographic analysis.
- 13.00 – 14.00 L • U • N • C • H
- 14:00 – 15:00 Global and/or pan Pacific biogeographic analysis.
- 15.00 – 15.30 Preparation of draft reports from each working group.

- 15:30 – 16:00 **C • O • F • F • E • E B • R • E • A • K**
- 16:00 – 17:00 Finalisation of draft reports from each working group
- 17:00 – 18:00 Working Groups report to the Plenary on biogeographic synthesis for the areas where analysis was possible.

Friday, 31 March 2006

- 09.00 – 10.00 Review of available taxonomic information and the formation of new working groups to discuss taxonomic issues
- 10.00 – 11.00 Groups meet to discuss taxonomy
- 11.00 – 11.30 **C • O • F • F • E • E B • R • E • A • K**
- 11.30 – 13.00 Report on taxonomic issues (including confidence in data, etc.).
- 13.00 – 14.00 **L • U • N • C • H**

WORKSHOP SUMMARY AND RECOMMENDATIONS

- 14.00 – 15.30 Discussion of the implications of available data and information for the protection of the environment at cobalt-rich crust mine sites
- 15.30 – 16.00 **C • O • F • F • E • E B • R • E • A • K**
- 16.00 – 17.30 Possible collaborations to address knowledge gaps
- 17.30 – 18.00 Presentation of recommendations
- 18.00 Closing remarks