VIII SCALOP SYMPOSIUM ON LOGISTICS AND OPERATIONS

PROCEEDINGS

JULY 21/22, 1998 CONCEPCION, CHILE





Proceedings of the Eight Symposium on Antarctic Logistics and Operations

Concepcion, Chile 21 – 22 July 1998

Conducted by

Standing Committee on Antarctic Logistics and Operations (SCALOP)

of the

Council of Managers of National Antarctic Programs (COMNAP)

Edited by

Patricio Eberhard

Editorial assistance

Yasna Ordoñez

CONTENTS

-	Foreword, Patricio Eberhard5
-	Communication technology for operational and emergency management at the Indian Antarctic Base Maitri, M. K. Dhaka, P. Sen and D. K. Gangopadhyay
-	Terra Nova Bay Station emergency response and contingency planning, A. Lori, A. Cucinotta, U. Ponzo and F. Ricci
-	Methodology for the study, assessment and testing of alternative energy systems at the Antarctic Stations; application to the Australian and French Stations Antoine Guichard, Peter Magill, Patrice Godon and Chris Paterson
-	Environmental monitoring at the Italian Terra Nova Bay Station, P. Giuliani, M. Kuneshka, D. Manco and L. Testa
-	The environmental specimen bank at the Chilean Nuclear Energy Commission, Eduardo Cortés, Nuri Gras and Rosemarie Schrader
-	Developing an environmental monitoring program of the United States Antarctic Program, Kim Givens
-	Telemedicine in Antarctica. Project ARGONAUTA, Patricia Vicuña and Ricardo Jaña61
-	Proposal for a dehydration plant for sewage sludges and food wastes in Antarctica, Delio Baraldi
-	The hydroponic greenhouse module for plant fresh food produce in Antarctica, C. A. Campiotti, R. Balducchi., R. Taggi and F. Tognoni
-	IHO antarctic charts, Commodore John Lech
-	Performance of a Snowmobile-Based Radio-Echo Sounding System, at Patriot Hills, Gino Casassa, Rubén Carvallo, Carlos Cárdenas, Boris Jelincic, and Andrés Rivera93
-	The Italian automatic module for unattended scientific experiments in Antarctica: present installation and future perspectives, M. Stefanoni, A. Lori and V. Nanni
-	Air operations to Antarctica from Chile, Javier Lopetegui Torres
-	Possible marine ice constitution in the bottom of the Weddell Sea, Juan Carlos Ianuzzo, Beatriz Lorenzo and Juan Carlos Rodríguez
-	New technologies for weather information management for air operations support in Antarctica, P. Tuzi and P.F.Coppola
	Compacted snow runway at the Larsemann Hills (Prydz Bay) (Site characteristics and time table for construction) Valery Lukin and Valery Klokov

Foreword

The VIII SCALOP Symposium on Logistics and Operations was held in Concepcion, Chile, on 21-22 July 1998, as part of the X COMNAP/SCALOP Meetings.

The Steering Committee of the SCALOP Symposium Working Group was integrated by P. Eberhard (Chairman), L. Fontana (Argentina), P.C.Pandey (India), R. Schorno (Netherland), J-E Haugland (Norway), V. Klokov (Russia), J. Hall (United Kingdom), and E. Chiang (United States of America).

During the IX COMNAP/SCALOP Meetings in Cambridge (United Kingdom) it had been aproved the following topics for this Symposium:

- Emergency response and contingency planning
- Environmental protection and monitoring, including alternative energy
- Management and operating-efficiences, including automation, new transportation ideas and international collaboration in Logistics support for Science
- Proven developments and operation, logistics and Science support
- New proven polar aviation/maritime technologies, including runways, Wxforecasting

Part of the Steering Committee met in Santiago in April 1998 to review and select some of the 25 abstracts received from 9 countries, according to the topics dealt with in Cambridge. The Steering Committee accepted only 17 abstracts to be presented in the Symposium.

These Proceedings include the presentation held during the VIII SCALOP Symposium on Logistics and Operations in Concepcion, July 1998.

Patricio Eberhard Chairman SCALOP Symposium Working Group