

Annual Report 2002

2002



Annual Report 2002

ARTICLE I of the Treaty

Basic Obligations

1. Each State Party undertakes not to carry out any nuclear weapon test explosion or any other nuclear explosion, and to prohibit and prevent any such nuclear explosion at any place under its jurisdiction or control.

2. Each State Party undertakes, furthermore, to refrain from causing, encouraging, or in any way participating in the carrying out of any nuclear weapon test explosion or any other nuclear explosion.

This report serves as the first of the Executive Secretary's written reports to the Twentieth Session of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization. It gives an account as of 31 December 2002 of the activities undertaken by the Provisional Technical Secretariat of the Commission during 2002 in implementation of Major Programmes 1–7.



Foreword

by the Executive Secretary

It is a great pleasure for me to submit herewith the annual report of the Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization for 2002, which shows tangible progress made in all aspects of establishing the Treaty verification regime and preparing for the entry into force of the Treaty.

The establishment of the International Monitoring System (IMS), which consists of a worldwide network of 321 seismic, hydroacoustic, infrasound and radionuclide stations and 16 radionuclide laboratories, continues to be developed steadily and securely. During 2002, 23 additional stations were certified as meeting the technical requirements of the Commission, bringing the total number of certified facilities at the end of 2002 to 47. Thus at the end of 2002, 46% of the stations in the IMS, including two Antarctic stations, were completed and met or substantially met the Commission's specifications. Since the beginning of 2003, 3 additional stations have been certified, bringing the total to 50 certified facilities. A further 80 stations are under construction or in the stage of contract negotiation.

The International Data Centre (IDC) in Vienna continues to receive, store and distribute data from a growing number of IMS stations. It routinely analyses data and provides bulletins to States Signatories on a regular basis. It also continues to be engaged in development and testing of additional processing capabilities required at entry into force of the Treaty. On the part of States Signatories, thus far around 50 National Data Centres (NDCs) have been established and a total of 465 users from 66 countries have been nominated to access IMS data and IDC products. We will continue to assist States Signatories in establishing and operating their NDCs.

The year 2002 was also the year in which the first large scale field experiment in on-site inspection (OSI) was conducted. More than 25 surrogate inspectors, from 17 States Signatories and the PTS staff, performed a simulation of inspection activities, including helicopter overflight, in a remote part of Kazakhstan. The results of the experiment will greatly help to build up the OSI regime.

During 2002, experts from all over the world continued to study and discuss the Treaty verification regime. Activities organized by the Commission, such as training courses and workshops, were held not only in Vienna but also in Africa, North and Central America, Asia and elsewhere in Europe, and more than 400 persons attended. I am grateful to Canada, China, Finland, Jamaica, Kenya, Norway, the United Kingdom and the United States of America for successfully hosting these events to meet the great interest of CTBT experts throughout the world.

While the primary purpose of the verification regime is to ensure compliance with the Treaty, the verification technologies are also useful for civil and scientific purposes. Scientific communities are expressing great interest in IMS data and IDC products, which could be of significant value for a variety of studies and would benefit not only individual States but also humankind as a whole. During the year, two events focusing on the promotion of civil and scientific applications of the verification technologies were organized upon the initiative and with the assistance of the Governments of Australia, Japan, the Netherlands and the United Kingdom. The PTS would be pleased to continue to support this endeavour.

On 11 June 2002, the Commission acceded to the 1986 Vienna Convention on the Law of Treaties between States and International Organizations or between International Organizations. I am confident that this will promote clarity, predictability and stability in the legal relations involving the Commission, and am pleased that the recognition of the status of the Commission has been further enhanced and broadened. On 18 September 2002, I signed the relationship agreement between the Commission and the Agency for the Prohibition of Nuclear Weapons in Latin America and the Caribbean (OPANAL). With the conclusion of this agreement, the cooperation between the Commission and OPANAL, which share the objective of enhancing international peace and security, has been strengthened.

Since the end of 2002, we have had ratification by an additional State. As of 11 March 2003, the CTBT had 166 signatures and 98 ratifications. Thus the Treaty is obtaining the status of universality. Recently States decided to convene the next Conference on Facilitating the Entry into Force of the Comprehensive Nuclear-Test-Ban Treaty (Article XIV conference) from 3 to 5 September this year in Austria. I hope that entry into force of the CTBT will be promoted further on the occasion of the conference. The PTS, for its part, will continue to advance in its work with strong determination in 2003.

Wolfgang Hoffmann
Executive Secretary

Preparatory Commission
for the Comprehensive
Nuclear-Test-Ban Treaty
Organization

Vienna
March 2003

Directors of the Provisional Technical Secretariat



Mr Gerardo Suárez
International Monitoring System
Division



Mr Rashad Kebeasy
International Data Centre Division



Mr Vladimir Krioutchenkov
On-Site Inspection Division



Mr Pierce S. Corden
Division of Administration



Mr Ziping Gu
Legal and External Relations Division

Copyright © Preparatory Commission for the
Comprehensive Nuclear-Test-Ban Treaty Organization

All rights reserved

Published by the Provisional Technical Secretariat of the
Preparatory Commission for the
Comprehensive Nuclear-Test-Ban Treaty Organization
Vienna International Centre
P.O. Box 1200
1400 Vienna
Austria

Cover: Bottom left: inlet ports of wind noise reducing pipe array
at infrasound station IS33, Antananarivo, Madagascar.
Top right: part of Global Communications Infrastructure hub at Fucino, Italy.

Throughout the document, countries are referred to by the names that were in official
use in the period for which the text was compiled.

The boundaries and presentation of material on maps contained in this document do not
imply the expression of any opinion on the part of the Preparatory Commission for the
Comprehensive Nuclear-Test-Ban Treaty Organization concerning the legal status of
any country, territory, city or area or its authorities, or concerning the delimitation of its
frontiers or boundaries.

The mention of names of specific companies or products (whether or not indicated as
registered) does not imply any intention to infringe proprietary rights, nor should it be
construed as an endorsement or recommendation on the part of the Preparatory
Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization.

Printed in Austria
May 2003

Based on document CTBT/PC-20/INF.1,
Report of the Executive Secretary on Major Programmes 1–7 for 2002

Contents

Major Programme 1: International Monitoring System	1
Major Programme 2: International Data Centre	9
Major Programme 3: Communications	17
Major Programme 4: On-Site Inspection	23
Major Programme 5: Evaluation	31
Major Programme 6: Policy Making Organs	35
Major Programme 7: Administration, Coordination and Support	37

SUPPLEMENTARY INFORMATION

States Whose Ratification is Required for the Treaty to Enter into Force (31 December 2002)	48
Status of Signature and Ratification of the Treaty (31 December 2002)	49
Facilities of the CTBT International Monitoring System	53
Organizational Structure of the Provisional Technical Secretariat (31 December 2002)	54

Abbreviations

ATM	atmospheric transport modelling
CIF	Capital Investment Fund
DMS	Document Management System
DNS	domain name system
DOTS	Database of the (Provisional) Technical Secretariat
EAC	Experimental Advanced Course
FE02	OSI field experiment in 2002
GCI	Global Communications Infrastructure
GSETT-3	Group of Scientific Experts Third Technical Test
HS	health and safety
IDC	International Data Centre (Vienna)
IDRT	initial draft rolling text
IMS	International Monitoring System
IT	inspection team
LRP	Long Range Plan
NDC	National Data Centre
NMS	network management system
O&M	operation and maintenance
OPANAL	Agency for the Prohibition of Nuclear Weapons in Latin America and the Caribbean
OSC	Operations Support Centre
OSI	on-site inspection
PKI	Public Key Infrastructure
PMO	Policy Making Organ
PTS	Provisional Technical Secretariat
QA	quality assurance
REB	Reviewed Event Bulletin
SAMS	Seismic Aftershock Monitoring System
TEP	training and exercise programme
TTP	technical training programme
VIC	Vienna International Centre
VPN	virtual private network
VSAT	very small aperture terminal
WGA	Working Group A
WGB	Working Group B
WMO	World Meteorological Organization