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BIBLIOGRAPHY ON ARMS CONTROL VERIFICATION: SECOND UPDATE



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BIBLIOGRAPHY ON ARMS CONTROL VERIFICATION: SECOND UPDATE



Dept. of External Affairs Min. des Affaires extérieures

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PREFACE

United Nations General Assembly Resolution 45/65 of 4
December 1990 adopted by consensus the Report of the Group of
Qualified Governmental Experts on the Role of the United Nations
in the Field of Verification. This resolution, inter alia,
called upon member states to assist the Secretary General in
implementing the recommendations contained in the Report of the
Group of Experts. Among these recommendations was the
development of a "consolidated data bank of published materials
and data provided on a voluntary basis by member states on all
aspects of verification and compliance".

Canada has played a particularly active role in the United Nations' consideration of the issue of "verification in all its aspects", including the study conducted by the Group of Experts. At the Forty-Fifth Session of the General Assembly, Canada's then Secretary of State for External Affairs Joe Clark confirmed Canada's intention to support the United Nations in establishing such a consolidated data bank through voluntary contributions of Canadian compilations and indexes of verification material. This undertaking follows from an on-going policy commitment by Canada to share with others, through the United Nations, the results of its verification research.

During the Forty-Sixth Session of the General Assembly, Canada contributed to the United Nations database a detailed Bibliography on Arms Control Verification: 1962-1991. That Bibliography covered more than 1500 entries during those years. Included were English language publications and submissions by governments and international organizations as well as the academic research community's literature on the subject. The following year, during the Forty-Seventh Session of the General Assembly, Canada contributed a second report entitled Bibliography on Arms Control Verification: Update. That Update contained over 800 new entries covering approximately the same time period as the 1991 Bibliography, with special emphasis on the literature between the summers of 1991 and 1992. Also included was French language material.

The following report, entitled <u>Bibliography on Arms Control Verification: Second Update</u> further updates the two previous bibliographies provided in 1991 and 1992. It has been prepared as a further Canadian contribution to the development of a United Nations data bank on verification and to assist governmental experts, negotiators and researchers in their work on verification matters.

UN Document, A/45/372, 28 August 1990, para. 263.

The Canadian Government wishes to acknowledge the work in the preparation of this <u>Second Update</u> performed under contract by Mr. René Unger, of Queen's University, Kingston, Ontario, in collaboration with the Verification Research Unit of External Affairs and International Trade Canada.

ABSTRACT

The <u>Bibliography on Arms Control Verification</u>: <u>Second Update</u> follows-on from two earlier compilations of verification literature, entitled <u>Bibliography on Arms Control Verification</u>: <u>1962-1991</u> and <u>Bibliography on Arms Control Verification</u>: <u>Update</u>². Researchers are advised to consult all three bibliographies for a more complete picture of the literature covered during this timeframe.

The <u>Second Update</u> lists alphabetically over 400 documents in French and English related to verification that have been identified since the publication of the 1992 <u>Update</u>, with special emphasis on material produced since the autumn of 1992. As before, these documents include the publications and submissions of governments and international organizations as well as the academic literature on the subject.

Each document has been assigned a number of subject keywords describing its contents. An updated thesaurus of these keywords is included in this report. Subject access to the documents contained in the <u>Second Update</u> is provided through an index of these keywords.

Bibliography on Arms Control Verification: 1962-1991, (Ottawa: External Affairs and International Trade Canada, October 1991).

Bibliography on Arms Control Verification: Update, (Ottawa: External Affairs and International Trade Canada, October 1992).

INTRODUCTION

Purpose

The <u>Bibliography on Arms Control Verification: Second Update</u> has been developed to facilitate research on arms control and disarmament verification issues. With this aim in mind, a subject index has been provided to help with searches on a wide variety of subjects. In addition, the work of specific personal and corporate authors can be identified rapidly.

Scope

The <u>Second Update</u> follows-on from the two earlier publications entitled <u>Bibliography on Arms Control</u> <u>Verification: 1962-1991</u> and <u>Bibliography on Arms Control</u> <u>Verification: Update</u>. The <u>Second Update</u> generally covers material identified since the autumn of 1992.

Researchers should note that some documents dated before the autumn of 1992 have also been included in the <u>Second Update</u>. Consequently, to ensure thorough coverage of the literature published before the autumn of 1992, the <u>Second Update</u> as well as the previous two bibliographies should be consulted.

As was true for the two earlier bibliographies, a variety of documents are covered in the <u>Second Update</u>. The focus, however, is on substantive discussions of matters related to verification — documents that propose, discuss, explain, evaluate or otherwise comment in a detailed fashion upon verification processes, procedures or systems. More transitory materials, such as documents that summarize the current state of negotiations or report on specific events, have usually been omitted from the <u>Second Update</u>. In this regard, articles from newspapers, newsletters and similar publications with a "current affairs" focus generally have not been included.

There are several topics covered by the <u>Second Update</u> -- confidence building, peacekeeping and compliance -- that are included because of their focus on matters related to arms control verification.

A variety of sources have been examined for this <u>Second</u> <u>Update</u>, which are listed below.

• The Conference on Disarmament (CD), 1992-1993; as was the case with the two earlier bibliographies, an effort has been made to include all relevant national submissions to the CD which address verification issues. In general, the minutes of CD meetings were not covered, nor were submissions to ad hoc committees.

- United Nations publications: The United Nations has been active in the field of verification mainly in two ways: as a source of research and as a forum for deliberation. Coverage includes UN General Assembly and Security Council resolutions pertaining to verification and submissions on this subject from the Secretary General as well as the Member States of the UN. Also covered are relevant UN Secretary General studies and research publications by the United Nations Institute for Disarmament Research (UNIDIR).
- Other international organizations: Several other organizations besides the CD and the UN have dealt with verification issues. Two such organizations are the International Atomic Energy Agency and the Western European Union. Budgetary and other similar annual documents, however, have not been included.
- National governments: Governmental publications have been covered in the <u>Second Update</u>. Canadian publications make up a large proportion of these documents, but there are also a number of American documents.
- Academic publications: The <u>Second Update</u> contains books, reports, articles and papers submitted at various conferences, and individual academic papers appearing in a variety of journals. Where the contents of conference proceedings or edited publications are of particular interest, articles have been listed individually under the author's name, not under those of the editors of the proceedings.
- International Treaties and Agreements: The texts of international treaties and agreements have <u>not</u> been covered by the <u>Second Update</u>.

Arrangement

As for the two earlier bibliographies, the entries contained in the <u>Second Update</u> are arranged alphabetically in descending order of priority by:

- author,
- corporate author,
- article title, and
- book or document title.

All entries follow a standard bibliographic style.

The names of corporate authors are entered in descending hierarchical order. Below is a example:

United States. Congress. Library of Congress. Congressional Research Service.

Under each entry is a list of subject keywords used to describe the contents of each article. These keywords are taken from a Thesaurus of controlled vocabulary, which can be found later in this report. For example:

293. Scheinman, Lawrence. "Nuclear Safeguards and Non-Proliferation in a Changing World Order". SECURITY DIALOGUE. Vol. 23, No. 4, 1992. SUBJECT KEYWORDS: IAEA; Safeguards; OSI.

Access

The <u>Second Update</u> can be used in a variety of ways. The alphabetical listing of the entries can be used to retrieve documents published by a particular author, private organization, government, governmental agency, or international organisation.

If information on a particular topic related to verification is desired, the <u>Subject Index</u> can be used. The keyword Thesaurus preceding the Subject Index explains the keywords used and their interrelationships. In the Index, the numbers ("postings") following each keyword refer to the appropriate entries in the bibliography.

The keyword structure to the subject indexing of the entries in the <u>Second Update</u> has been designed for computer searching using Boolean search strategies. Consequently, when printed in isolation, some keywords may have a large number of postings. A number of keywords have been added and refined as the database was updated: the user should keep this in mind when consulting the <u>Second Update</u> and two previous bibliographies.

When searching for the views of a particular country or countries on verification issues, in addition to checking under the country's name in the alphabetical listing, it may be useful to examine the Subject Index under the relevant subject entry. This will permit commentaries on national positions to be retrieved.

Thesaurus

Below are explanations of the terms used in the thesaurus.

SCOPE NOTE (SN): A Scope Note defines a term or describes its scope.

EG. CONSULTATION SN: Refers to consultation and cooperation procedures, complaints procedures, and crisis management and crisis prevention procedures.

BROADER TERM (BT): A <u>Broader Term</u> refers the reader to related keywords that are larger in scope.

EG. SATELLITE BT: R SENSORS

In this example, the keyword "Satellite" describes just one method of remote sensing and so represents just one aspect of the concept of "remote sensors" (R SENSORS).

NARROWER TERM (NT): A <u>Narrower Term</u> refers the reader to related keywords that are more specific.

EG. CONSULTATION NT: SCC

In this example, the keyword "SCC" represents one particular example of "consultation" -- in this case, the Standing Consultative Commission used under the ABM Treaty.

RELATED TERM (RT): A Related Term refers the reader to keywords related to the keyword under discussion but not in a more general or more specific sense.

EG. CFE RT: CONVENTIONAL

The keyword "CFE" (Conventional Forces in Europe Treaty) is related to the keyword "conventional" in that conventional weapons are a central issue in the CFE Treaty.

USE (USE): The term <u>USE</u> directs the user to search for a topic within the Index using the indicated term.

EG. Testing USE: R&D

USED FOR (UF): The term <u>Used For</u> is the reciprocal of USE.

EG. R&D UF: Testing

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 SUBJECT KEYWORDS: Info Exch; Conventional; Military Budget.
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 SUBJECT KEYWORDS: Conventional; Info Exch; Military
 Budget.
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 CONFERENCE OF THE PARTIES TO THE CONVENTION ON THE
 PROHIBITION OF THE DEVELOPMENT, PRODUCTION AND
 STOCKPILING OF BACTERIOLOGICAL (BIOLOGICAL) AND
 TOXIN WEAPONS AND ON THEIR DESTRUCTION:
 TRANSPARENCY IN ARMAMENTS. UN Document A/RES/46/35
 (L). 6 December 1991.
 SUBJECT KEYWORDS: BW; Destruction.
- 378. United Nations. General Assembly. TRANSPARENCY IN ARMAMENTS. UN Document A/46/36 (L). 9 December 1991.

 SUBJECT KEYWORDS: CBM; Conventional.
- 379. United Nations. General Assembly. VERIFICATION IN ALL ITS ASPECTS, INCLUDING THE ROLE OF THE UNITED NATIONS IN THE FIELD OF VERIFICATION. UN Document A/48/227. 26 July 1993.

 SUBJECT KEYWORDS: Verification General; UN; Verification Canada.

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 SUBJECT KEYWORDS: Verification General; UN; Legality; R Sensors; Coop Measures; BTWC; IAEA; Safeguards; CW; Seismic; Cost; Aerial; Satellite; IVO; Info Exch.
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 SUBJECT KEYWORDS: UN; Verification General.
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 SUBJECT KEYWORDS: Environment.
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 SUBJECT KEYWORDS: Verification General; UN.
- 383a. United Nations. Security Council. AN AGENDA FOR PEACE: PREVENTIVE DIPLOMACY, PEACEMAKING AND PEACE-KEEPING: REPORT OF THE SECRETARY-GENERAL PURSUANT TO THE STATEMENT ADOPTED BY THE SUMMIT MEETING OF THE SECURITY COUNCIL ON 31 JANUARY 1992. A/47/277. 17 June 1992. SUBJECT KEYWORDS: Arms Control; Peacekeeping; UN.
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 SUBJECT KEYWORDS: OSI; UN; Mideast; CW Use; CW.
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 SUBJECT KEYWORDS: OSI; UN; Mideast; CW Use; CW.

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 SUBJECT KEYWORDS: CW; CW Use; Mideast; OSI; UN.
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 SUBJECT KEYWORDS: CW Use; CW; Mideast; UN.
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 SUBJECT KEYWORDS: CW Use; CW; UN; Mideast; OSI.
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 SUBJECT KEYWORDS: OSI; UN; CW Use; CW; Africa.
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 SUBJECT KEYWORDS: OSI; CW Use; UN; Mideast; CW.

- 392. United Nations. Security Council. REPORT OF THE MISSION DISPATCHED BY THE SECRETARY-GENERAL TO INVESTIGATE ALLEGATIONS OF THE USE OF CHEMICAL WEAPONS IN THE CONFLICT BETWEEN THE ISLAMIC REPUBLIC OF IRAN AND IRAQ. UN Document S/20063. 25 July 1988.

 SUBJECT KEYWORDS: CW Use; CW; OSI; Mideast; UN.
- 393. United Nations. Security Council. REPORT OF THE SPECIALISTS APPOINTED BY THE SECRETARY-GENERAL TO INVESTIGATE ALLEGATIONS BY THE ISLAMIC REPUBLIC OF IRAN CONCERNING THE USE OF CHEMICAL WEAPONS: NOTE BY THE SECRETARY-GENERAL. UN DOCUMENT S/16433. 26 March 1984.

 SUBJECT KEYWORDS: CW Use; CW; OSI; UN; Mideast.
- 394. United Nations. Security Council. REPORT OF THE SPECIALISTS APPOINTED BY THE SECRETARY-GENERAL TO INVESTIGATE ALLEGATIONS BY THE ISLAMIC REPUBLIC OF IRAN CONCERNING THE USE OF CHEMICAL WEAPONS: NOTE BY THE SECRETARY-GENERAL. UN Document S/16433. 26 March 1984.

 SUBJECT KEYWORDS: CW Use; CW; Mideast; OSI; UN.
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 SUBJECT KEYWORDS: UN; Mideast.
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 SUBJECT KEYWORDS: UN; Mideast; CW.
- 397. United Nations. Security Council. RESOLUTION 620. UN Document S/RES/620. 26 August 1988. SUBJECT KEYWORDS: CW; BW; Mideast; UN.
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 SUBJECT KEYWORDS: UNSCOM; Compliance Iraq; IAEA;
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 SUBJECT KEYWORDS: UNSCOM; Compliance Iraq; IAEA;
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 Agency, 31 March 1993.
 SUBJECT KEYWORDS: Compliance USSR.

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 ALTERNATIVE TECHNOLOGIES. Background paper OTA-BP-O-95. Washington, D.C.: US Government Printing Office, June 1992.
 SUBJECT KEYWORDS: CW; Destruction.
- 402. United States. Congress. Senate. CAPABILITY OF THE UNITED STATES TO MONITOR COMPLIANCE WITH THE START TREATY. 102nd Congress, 2nd Session. 29 September 1992.

 SUBJECT KEYWORDS: START; Verification USA.
- 403. United States. Congress. Senate Foreign Relations
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 SUBJECT KEYWORDS: Open Skies.
- 404. Vachon, Gordon. "Chemical and Biological Weapons:
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 Studies, December 1992.
 SUBJECT KEYWORDS: UNSCOM; OSI; BW; CW; Sampling.
- 405. Vachon, Gordon. "The Chemical Weapons Convention:
 Status and Negotiation". In: MULTILATERAL
 VERIFICATION AND THE POST-GULF ENVIRONMENT:
 LEARNING FROM THE UNSCOM EXPERIENCE. Edited by
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 Studies, December 1992.
 SUBJECT KEYWORDS: CW; OSI; CWC.
- 406. Van der Graaf, Henny. "Organizational Options for Verification". In: REMOTE SENSING UNDER CHANGING CONDITIONS: PROCEEDINGS OF THE IMMENSTAAD WORKSHOP 1992. Edited by Hans-Joachim Heintze. Bochum: UVB-Universitätsverlag Dr. N. Brockmeyer, 1992. SUBJECT KEYWORDS: Europe; NATO; WEU; CSCE; Open Skies; Satellite; UN.
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 SUBJECT KEYWORDS: Europe; CFE; CBM; R Sensors; Satellite; Aerial; Info Exch; OSI; Consultation; SCC; Cost.

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 SUBJECT KEYWORDS: NW; Destruction.
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 SUBJECT KEYWORDS: CWC.
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 SUBJECT KEYWORDS: R Sensors; Europe; SPOT;
 Satellite; CFE.
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 SUBJECT KEYWORDS: Environment.
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 SUBJECT KEYWORDS: CWC; OSI; Confidentiality.
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 SUBJECT KEYWORDS: R Sensors.
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 SUBJECT KEYWORDS: S R Sensors; NW.
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 SUBJECT KEYWORDS: S R Sensors; NW.

THESAURUS

THESAURUS

The Thesaurus below lists the terms used as 'Keywords' in the accompanying Subject Index. Where necessary, each keyword is followed by an explanatory note. The reader should note that acronyms and abbreviations have been used extensively in the selection of these keywords. Keywords will also be followed by a note of any broader, narrower or related terms.

NOTE: A number of keywords have been added and refined as the Verification Literature database was updated; the user should keep this in mind when consulting the Second Update.

- ABM

Anti-Ballistic Missile

NT: ABMT RT: ASAT

- ABMT

Anti-Ballistic Missile Treaty

BT: ABM

- ACD POLICY (COUNTRY)

Arms Control and Disarmament Policy (Country)

SN: Refers to a country's attitude or position

regarding general arms control and disarmament

issues.

RT: ARMS CONTROL

- AERIAL

SN: Refers to sensors used from an aircraft as well as

related procedures and platforms.

BT: R SENSORS
RT: OPEN SKIES

- AFRICA

SN: Includes Arab Africa, but excludes Egypt.

- AIRCRAFT

SN: Refers to controls on military aircraft.

RT: CONVENTIONAL

RT: NW

- ALCM

Air Launched Cruise Missile

BT: NW

BT: CONVENTIONAL

BT: CRUISE

- ANTARCTICA

- ARCTIC

- ARMS CONTROL

SN: Refers to discussion of the larger context of

verification activities.

RT: ACD POLICY (COUNTRY)

- ASAT

Anti-Satellite Weapons System

UF: Space Weapon

RT: SPACE

RT: SATELLITE

RT: ABM

- AZERBAIJAN

SN: Refers to conflict management activities in the region of Azerbaijan.

- Binary Weapons

USE: CW

- BLOOD SAMPLING

SN: Refers to verification techniques involving the

sampling of blood.

BT: SAMPLING
BT: S R SENSORS

- BTWC

Biological and Toxins Weapons Convention

BT: BW

RT: YELLOW RAIN

- Budgetary Analysis

USE: COLLATERAL ANALYSIS

- BW

Biological Weapon

UF: Dual Capable

BT: WMD

NT: MISSILE

NT: PRODUCTION

NT: STOCKPILING

NT: DESTRUCTION

NT: YELLOW RAIN

NT: PROLIFERATION

NT: BTWC

- CBM

Confidence Building Measures

UF: Confidence and Security Building Measures

RT: CSCE

- Confidence and Security Building Measures
 USE: CBM
- CD Conference on Disarmament
- CENTRAL AMERICA
- CFE

Conventional Forces in Europe Treaty and Negotiations

RT: CONVENTIONAL

RT: JCG

- COLLATERAL ANALYSIS

SN: Refers to analysis of open literature (eg. journals and newspapers) for verification purposes, including budgetary analysis, records monitoring, and literature reviews.

UF: Budgetary Analysis UF: Records Monitoring UF: Literature Review

RT: INFO EXCH RT: INTELLIGENCE

- Complaints Procedures

USE: CONSULTATION

- COMPLIANCE

SN: Refers to general discussions regarding compliance behaviour.

RT: INTERFERENCE

- COMPLIANCE (COUNTRY)

SN: Refers to discussions of a specific country's compliance with ACD agreements, and attitudes towards the issue of compliance; includes discussions of appropriate compliance/verification standards, such as what constitutes 'adequate' or 'effective' verification; also refers to discussions regarding the level of confidence a country has in its ability to evaluate the compliance of other countries.

- COMPLIANCE HISTORY

SN: Refers to discussion of compliance debates and issues before 1950.

- COMPLIANCE ORGANIZATION (COUNTRY)

SN: Refers to the bureaucratic process involved in a country's assessment of compliance.

RT: NATIONAL AUTHORITY

- CONFIDENTIALITY

SN: Refers to efforts to ensure that verification activities do not collect data on matters outside their legitimate mandate (ie. military or civilian/industrial secrets).

RT: INFO EXCH RT: LEGALITY RT: INTELLIGENCE

- CONSULTATION

SN: Refers to consultation and cooperation procedures, complaints procedures, and crisis management and crisis prevention procedures.

UF: Complaints Procedures

NT: SCC NT: JCG NT: SVC

- CONTROL POSTS

UF: Entry/Exit Points
UF: Observation Posts

BT: OSI

BT: SAMPLING

RT: PEACEKEEPING

RT: S R SENSORS

- CONVENTIONAL

SN: Refers to weapons that are not weapons of mass destruction (ie. nuclear, biological, chemical, radiological or environmental).

UF: Dual-Capable Weapons

NT: AIRCRAFT
NT: MISSILE
NT: PRODUCTION

NT: STOCKPILING

NT: DESTRUCTION

NT: CRUISE

NT: PROLIFERATION

NT: ALCM NT: SLCM RT: MBFR RT: CFE

- COOP MEASURES

Cooperative Measures

SN: Refers to Functionally Related Observable
Differences (FRODs), Externally Observable
Differences (EODs), Designated Deployment Areas
(DDAs), counting aids and other measures designed
to assist verification; requirements for specific
cooperative actions by the inspected parties.

- COST

SN: Refers to explicit discussion of monetary costs or financing of a verification system.

- CRUISE

Cruise Missiles

BT: NW

BT: CONVENTIONAL

NT: ALCM NT: SLCM

- CSCE

Conference on Security and Cooperation in Europe

RT: CBM

- CTBT

Comprehensive Test Ban Treaty

BT: NW BT: NTBT RT: SEISMIC

- CPWEI

Convention on Prohibition or Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to have Indiscriminate

Effects

SN: Includes discussions relating to mines, booby traps, non-detectable fragments, and incendiaries.

UF: Mines

- CUTOFF

Fissionable Material "Cutoff"

BT: NW RT: IAEA

- CW

Chemical Weapons

UF: Dual Capable Weapons

UF: Binary Weapons

BT: WMD
NT: MISSILE
NT: PRODUCTION
NT: STOCKPILING
NT: DESTRUCTION
NT: PROLIFERATION

NT: CWC NT: CWFZ NT: CW USE

- CW USE

Chemical Weapons Use

SN: Refers to investigations regarding the alleged use

of chemical weapons.

BT: CW RT: OSI

- CWC

Chemical Weapons Convention

BT: CW

NT: NATIONAL AUTHORITY

RT: OPCW

- CWFZ

Chemical Weapons Free Zone

BT: CW RT: DMZ

- Data Exchange

USE: INFO EXCH

- DESTRUCTION

SN: Refers to the destruction of weapons.

BT: NW BT: BW BT: CW

BT: CONVENTIONAL

- Dual Capable Weapons

USE: NW
USE: BW
USE: CW

USE: CONVENTIONAL

- DMZ

Demilitarized Zones

RT: NWFZ RT: CWFZ

- ENMOD

Environmental Modification

SN: Includes the ENMOD Treaty, as well as discussions of laws relating to war-related damage to the environment.

BT: WMD RT: NW

- Entry/Exit Points

USE: CONTROL POSTS

- ENVIRONMENT

SN: Refers to discussion of the verification provisions of treaties concerned with the environment.

- EUROPE

- Game Theory

USE: MATH

- GCD

General and Complete Disarmament

- IAEA

International Atomic Energy Agency

RT: NW

RT: PROLIFERATION

RT: CUTOFF

RT: SAFEGUARDS

- INDIAN OCEAN

- INF

Intermediate Nuclear Forces Treaty

SN: Refers also to all discussion of Intermediate Range

Nuclear Missiles.

RT: NW

RT: MISSILE

RT: SVC

- INFO EXCH

Information Exchange

UF: Data Exchange

RT: COLLATERAL ANALYSIS

RT: CONFIDENTIALITY

- INTELLIGENCE

SN: Refers to discussions of intelligence processes as they relate to verification; includes discussions of HUMINT (human intelligence), SIGINT (signals

intelligence), and COMINT (communications

intelligence).

RT: COLLATERAL ANALYSIS

RT: TELEMETRY

RT: CONFIDENTIALITY

- INTERFERENCE

SN: Refers to interference techniques with verification efforts, both passive (concealment and deception) and active (jamming). Includes discussion of

seismic decoupling techniques.

RT: COMPLIANCE

- ISMA

International Satellite Monitoring Agency

UF: Regional Satellite Monitoring Agency

BT: SATELLITE
RT: PAXSAT
RT: SPACE
RT: IVO

- IVO

International Verification Organization

RT: UN
RT: ISMA

- JCG

Joint Consultative Group

SN: The consultative body established by the CFE

Treaty.

BT: CONSULTATION

RT: CFE

- JVE

Joint Verification Experiments

BT: NW

RT: SEISMIC

- LEGALITY

SN: Refers to discussions of the legal aspects and implications of a verification system, including international and domestic law.

RT: CONFIDENTIALITY

- Literature Review

USE: COLLATERAL ANALYSIS

- LTBT

Limited Test Ban Treaty

BT: NW
BT: NTBT
RT: SEISMIC

- MANPOWER

SN: Refers to the verification of controls on military personnel levels.

- MATH

SN: Refers to mathematical analyses of verification,

compliance and related matters.

UF: Game Theory RT: STAT SAMPLING

- MBFR

Mutual Balanced Force Reduction (Talks)

RT: CONVENTIONAL

- MEDIASAT

SN: Refers to discussions of the use of satellite

imagery and related information for news gathering

purposes.

BT: SATELLITE
BT: SPOT

- MEDITERRANEAN

- MIDEAST

Middle East

SN: Includes Egypt.

UF: Sinai Support Mission

RT: R SENSORS (when discussing the Sinai Support

Mission)

RT: S R SENSORS (when discussing the Sinai Support

Mission)

RT: UNSCOM

- MILITARY BUDGET

SN: Refers to efforts to increase transparency through

the publication and/or exchange of data on

military budgets.

- Mines

USE: CPWEI

- MISSILE

SN: Refers to all ballistic missile.

BT: NW BT: BW

BT: CW

BT: CONVENTIONAL

NW: MOBILE NW: MTCR

RT: INF

- MOBILE

SN: Refers to mobile ballistic missile systems.

BT: MISSILE

- MTCR

Missile Technology Control Regime

BT: MISSILE

- NATIONAL AUTHORITY

SN: Refers to all aspects of the national implementation of measures respecting the Chemical Weapons Convention by a signatory nation.

BT: CWC

RT: COMPLIANCE ORGANIZATION (COUNTRY)

RT: VERIFICATION ORGANIZATION

RT: VERIFICATION ORGANIZATION (COUNTRY)

NT: NATIONAL AUTHORITY (COUNTRY)

- NATIONAL AUTHORITY (COUNTRY)

SN: Refers to a particular country's activities in meeting its obligations to the CWC.

BT: NATIONAL AUTHORITY

- NATIONAL SELF SUPERVISION

SN: Refers to national verification procedures which are self-regulated or self-enforced.

- National Technical Means

USE: R SENSORS

- NATO

North Atlantic Treaty Organization

- NAVAL

SN: Refers to verification activities relating to a maritime context.

UF: Sea Bed Treaty

- NE ASIA

North East Asia

SN: China, North and South Korea, the Soviet Far East, and Japan.

- NEW WEAPONS

SN: Refers to discussion of new weapons technologies (eg. lasers, particle weapons, etc.).

UF: Space Weapons

- NPPI

Non-Physical/Psychological Inspection

SN: Refers to attempts to draw upon personal knowledge of violations as the means of verifying an agreement, as opposed to more physical forms of inspection.

- NPT

Non-Proliferation Treaty

BT: NW

BT: PROLIFERATION

- NTBT

Nuclear Test Ban Treaty

SN: Includes general discussion of a nuclear test ban.

BT: NW

NT: CTBT

NT: LTBT

NT: PTBT

NT: TTBT

RT: SEISMIC

- NW

Nuclear Weapons

UF: Dual Capable Weapons

BT: WMD

NT: CRUISE

NT: NPT

NT: PNE

NT: PNET

NT: PTBT

NT: NTBT

NT: LTBT

NT: CTBT

NT: MISSILE

NT: JVE

NT: TTBT

NT: SEISMIC

NT: CUTOFF

NT: PRODUCTION

NT: STOCKPILING

NT: DESTRUCTION

NT: PROLIFERATION

NT: SAFEGUARDS

NT: ALCM

NT: SLCM

NT: NWFZ

NT: R WEAPON

RT: AIRCRAFT

RT: INF

RT: SALT I

RT: SALT II

RT: START

RT: ENMOD

RT: IAEA

- NWFZ

Nuclear Weapons Free Zone

BT: NW

RT: DMZ

- Observation Posts

USE: CONTROL POSTS

- OPCW

Organization for the Prohibition of Chemical Weapons RT: CWC

- OPEN SKIES

SN: Refers to discussion of the Open Skies (Europe/North America) negotiations.

RT: AERIAL RT: R SENSORS

- OSI

On-Site Inspection

SN: Refers to a verification method that involves the physical presence of foreign or international inspectors on the territory of the inspected country. This term includes discussion of the following types of inspections: general, selective, progressive/zonal, intrusive, non-intrusive, obligatory and non-obligatory means of on-site inspection, suspect site inspections and challenge inspections.

NT: CONTROL POSTS

NT: TAGS

RT: PEACEKEEPING
RT: SAFEGUARDS
RT: S R SENSORS

RT: CW USE

- OST

Outer Space Treaty
RT: SPACE

- PACIFIC

- PAXSAT

SN: A Canadian research project concerning the feasibility of using satellites for arms control verification.

BT: SATELLITE

RT: ISMA

- PEACEKEEPING

SN: Refers to peacekeeping forces and peace observation forces. Coverage focuses primarily on those documents that have relevance to the subject of verification.

RT: OSI

RT: CONTROL POSTS

- Perimeter/Portal Monitoring

USE: S R SENSORS

- PERSONNEL

SN: Refers to discussion of the personnel requirements of a verification system; includes training.

- PNE

Peaceful Nuclear Explosion

BT: NW NT: PNET

- PNET

Peaceful Nuclear Explosion Treaty

BT: NW BT: PNE

- PRODUCTION

SN: Refers to discussion of both open and clandestine production of weapons.

BT: NW BT: BW BT: CW

BT: CONVENTIONAL

- PROLIFERATION

SN: Refers to explicit discussion of the horizontal proliferation of conventional, chemical and nuclear weapons technologies.

BT: NW BT: BW BT: CW

BT: CONVENTIONAL

NT: NPT RT: IAEA

- PTBT

Partial Test Ban Treaty

BT: NW
BT: NTBT
RT: SEISMIC

- Quotas

USE: STAT SAMPLING

- R&D

Research and Development

SN: Refers to the research, development and/or testing

of weapons technologies.

UF: Testing

- Records Monitoring

USE: COLLATERAL ANALYSIS

- Regional Satellite Monitoring Agency USE: ISMA

- R SENSORS

Remote Sensors

SN: Refers to the general use of sensors at a distance (over several hundred metres) from the target or activity being observed. Includes ground-based and ship-based sensors; airborne sensors and satellite sensors; includes radar; includes ocean surveillance (SOSUS).

UF: National Technical Means

NT: SATELLITE
NT: AERIAL
NT: SEISMIC
NT: SAMPLING

RT: MIDEAST (when discussing the Sinai Support Mission)

RT: OPEN SKIES
RT: S R SENSORS

- R WEAPON

Radiological Weapon

SN: Refers to those weapons which operate through the dissemination of radioactive materials or effects.

BT: NW BT: WMD

- S ASIA

SN: Refers to the Indian sub-continent.

- SAFEGUARDS

SN: Refers to measures carried out by the IAEA to ensure that nuclear materials are not diverted for purposes other than those intended by the Non-Proliferation Treaty. It combines such techniques as the keeping of records and accounts of materials, periodic reports, physical protection of the material under question, and various means of surveillance.

BT: NW
RT: IAEA
RT: OSI

RT: S R SENSORS

RT: VERIFICATION ORGANIZATION (National and International safeguard procedures and bureaucracies)

- SALT I

Strategic Arms Limitation Talks I

RT: NW RT: SCC

- SALT II

Strategic Arms Reduction Talks II

RT: NW RT: SCC

- SAMPLING

SN: Refers to the taking of samples (by air or water).

BT: R SENSORS
BT: S R SENSORS
NT: CONTROL POSTS
NT: BLOOD SAMPLING

- SATELLITE

SN: Refers to sensors used from satellites.

BT: R SENSORS
NT: PAXSAT
NT: MEDIASAT
NT: SPOT
NT: ISMA
RT: ASAT
RT: SPACE

- scc

Standing Consultative Commission

SN: The consultative body established by the ABMT.

BT: CONSULTATION

RT: SALT I RT: SALT II

- SE ASIA

Southeast Asia

SN: Viet Nam, Laos, Thailand, Myanmar, Kampuchea.

- Sea Bed Treaty

USE: NAVAL

- Seals

USE: TAGS

- SEISMIC

SN: Refers to discussions pertaining to the use of the science of seismology for verification purposes, and discussions involving the interpretation of seismic data.

BT: NW

BT: S R SENSORS
BT: R SENSORS

RT: JVE
RT: TTBT
RT: NTBT
RT: LTBT
RT: PTBT

RT: CTBT

- Sinai Support Mission

USE: MIDEAST

- SLCM

Sea Launched Cruise Missile

BT: NW

BT: CONVENTIONAL

BT: CRUISE

- SOUTH AMERICA

- SPACE

Outer Space

SN: Refers to verification activities relating to arms control agreements respecting outer space.

RT: ASAT

RT: SATELLITE

RT: ISMA RT: OST

- Space Weapons

USE: NEW WEAPONS

(when discussing directed energy or particle

weapons based in space)

USE: ASAT

(when discussing kinetic-kill weapons designed to

harm satellites)

- SPOT

Satellite pour l'observation de la terre

SN: Refers to the use of SPOT and other commercial satellites for verification-related activities.

BT: SATELLITE NT: MEDIASAT

- S R SENSORS

Short Range Sensors

SN: Refers to sensing devices used at close ranges (ie. on the order of several hundred metres or less).

Includes discussion of cameras, closed circuit TV, vibration detectors, buried microwave cables, and automatic effluent, emission and radiation monitors. Also includes discussion of the portable equipment used by on-site inspectors.

UF: Perimeter/Portal Monitoring

NT: SEISMIC

NT: BLOOD SAMPLING

NT: SAMPLING

RT: CONTROL POSTS

RT: MIDEAST (when discussing the Sinai Support Mission)

RT: SAFEGUARDS RT: R SENSORS

RT: OSI

- START

Strategic Arms Reduction Talks

BT: NW

- STAT SAMPLING

Statistical Sampling

UF: Quotas
RT: MATH

- STOCKPILING

BT: NW BT: BW BT: CW

BT: CONVENTIONAL

- SVC

Special Verification Commission

SN: The consultative body established by the INF

Treaty.

BT: CONSULTATION

RT: INF

- TAGS

SN: Refers to methods involving the use of identifying labels affixed to an object, or intrinsic identifying characteristics of the object itself (ie. "finger prints"). Also refers to methods to prevent or detect tampering with the contents of a container or access through a portal (ie. seals).

UF: Seals BT: OSI

RT: S R SENSORS

- Testing

USE: R&D

- TELEMETRY

SN: Refers to the verification methods involved in the monitoring of telemetry. Includes telemetry

encryption. RT: INTELLIGENCE

- TTBT

Threshold Test Ban Treaty

BT: NW
BT: NTBT
RT: SEISMIC

- UN

United Nations RT: IVO

- UNGA

United Nations General Assembly

- UNSCOM

United Nations Special Commission

SN: As established by UNSC Resolution 687.

RT: MIDEAST

- UNSSOD

United Nations Special Session on Disarmament

- VERIFICATION DEFINITION

SN: Refers to explicit discussion of the definition of verification.

- VERIFICATION GENERAL

SN: Refers to discussion of the general process of verification. NOTE: when discussion turns to the verification aspects of a specific agreement or issue area, use the keyword relevant to that agreement or issue area.

- VERIFICATION HISTORY

SN: Refers to discussion of verification and issues before 1950.

- VERIFICATION (COUNTRY)

SN: Refers to discussion of a particular country's attitude towards a verification problem or issue.

NOTE: Also search under the country's name in the Bibliography.

- VERIFICATION ORGANIZATION

SN: Refers to discussion of the bureaucratic framework involved in a verification process, or the organizational mechanics of a verification process. Includes discussion of logistics support.

RT: NATIONAL AUTHORITY

RT: SAFEGUARDS

- VERIFICATION ORGANIZATION (COUNTRY)

SN: Refers to discussion of a particular country's bureaucratic or organizational machinery for verification.

RT: NATIONAL AUTHORITY

- VERIFICATION RESEARCH

SN: Refers to discussion of research into new verification methods, or the improvement of existing ones.

- VERIFICATION RESEARCH (COUNTRY)

SN: Refers to discussion of a particular country's research into new verification methods, or the improvement of existing ones.

RT: VERPROG

- VERPROG

Verification Research Program, External Affairs and International Trade Canada.

RT: VERIFICATION RESEARCH (COUNTRY)

- WEU

Western European Union

- WMD

Weapon of Mass Destruction

NT: NW NT: BW NT: CW

NT: R WEAPON

NT: ENMOD

- YELLOW RAIN

BT: BW RT: BTWC

SUBJECT INDEX

SUBJECT INDEX

This subject index has been provided to help with searches on a wide variety of subjects. Abbreviations and acronyms have been used extensively in the selection of the keywords found below. Definitions of these keywords can be found by referring to the Thesaurus.

The numbers ("postings") which follow each keyword refer to the appropriate entries in the bibliography. The keyword structure for the bibliography has been designed for computer searching using Boolean search strategies. Consequently, some keywords may have a large number of postings.

NOTE: A number of keywords have been added and refined as the database was updated; the user should keep this in mind when consulting the <u>Second Update</u>.

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