

TABLE OF CONTENTS

PREFACE	iv
ACKNOWLEDGMENTS	v
EXECUTIVE SUMMARY	vi
1. INTRODUCTION	
1A. Purpose and Outline of the Paper	1
1B. The CTBT: What It Is and Is Not	2
1C. The CTBT and Verification: General	4
1D. The CTBT and Verification of the Three Events	5
1E. Implementation of the CTBT Verification Regime	6
1F. Other Sources of Information	8
2. TECHNICAL ASPECTS OF VERIFICATION AND TESTING	
2A. Identifying Explosions	9
2B. The Significance of Measuring the Yield	11
3. NON-SEISMIC METHODS OF VERIFICATION	
3A. Non-Seismic Monitoring Methods Under the CTBT	13
3B. On-site Inspections	14
3C. The Use of Satellite Imagery	14
4. THE THREE EVENTS	
4A. The Novaya Zemlya Event of August 16, 1997	18
4B. The Indian Explosions of May 11 and May 13, 1998	20
4C. The Pakistani Explosions of May 28 and May 30	22
5. IMPLICATIONS OF THE THREE EVENTS FOR CTBT VERIFICATION	
5A. General Implications	23
5B. Specific Implications from the Three Cases	24
5C. India and Pakistan as Test Cases	25
5D. Advance Knowledge	26
6. CONCLUSIONS	28
ANNEX A: LIST OF ACRONYMS AND ABBREVIATIONS	31
ANNEX B: CANADA'S CONTRIBUTION TO THE IMS	33
ANNEX C: YIELD, DETECTION THRESHOLD, AND MILITARY SIGNIFICANCE ...	34
ANNEX D: NON-SEISMIC TECHNOLOGIES IN THE CTBT MONITORING SYSTEM ..	41
REFERENCES	44