

The Legal Regime of Hydrospace

E. D. BROWN

Stevens

THE LIBRARY OF WORLD AFFAIRS

Editors:

GEORGE W. KEETON

AND

GEORG SCHWARZENBERGER

Number 70

THE LEGAL REGIME OF HYDROSPACE

THE LEGAL REGIME OF HYDROSPACE

BY

E. D. BROWN, PH.D., B.L.

*Senior Lecturer in International Law, University College London;
Fellow, Woodrow Wilson International Center for Scholars, Washington, D. C.*

Published under the auspices of

THE LONDON INSTITUTE OF WORLD AFFAIRS

LONDON

STEVENS & SONS

1971

PREFACE

SINCE the manuscript of this work left my hands, there have been three developments of some note. First, on August 3, 1970, the United States tabled in the Sea-Bed Committee a Draft United Nations Convention on the International Sea-bed Area—an attempt at a detailed implementation of the somewhat vague principles with which the debate had previously been concerned. Secondly, on December 17, 1970, the United Nations General Assembly at last succeeded in adopting a Declaration of Principles Governing the Sea-Bed which, like the United States Draft Convention, helped to clear the way for an advance from abstract principle to hard negotiations. The third development, a Resolution on a Law of the Sea Conference, also adopted by the General Assembly on December 17, 1970, provided the institutional framework and a provisional timetable for such negotiations, culminating in a United Nations Conference in 1973. While full discussion of these advances has clearly not been possible, an attempt has been made to revise in proof the passages affected by these major developments. In addition, the texts of the two General Assembly Resolutions are reproduced in Appendices IV and V and, in Appendix VI, a tabular analysis is presented of the newly increased membership of the United Nations Sea-Bed Committee—the Committee in which preparatory negotiations for the 1973 Conference are already under way.

Earlier versions of parts of this work were stimulated by invitations to contribute to various Journals and Conferences and I should like to record my indebtedness to the publishers and editors of *Current Legal Problems*, the *Juridical Review*, the *Natural Resources Journal* and the *Year Book of World Affairs*, as well as to the organisers of the Fourth Annual Conference of the Law of the Sea Institute, University of Rhode Island (1969) and the Symposium on the International Regime of the Sea-Bed of the *Istituto Affari Internazionali* (Rome, 1969).

The difficulty of keeping abreast of current developments has been considerably eased by the kindness of many friends and colleagues among whom I am especially grateful to Thomas S. Busha of IMCO, J. E. Carroz of FAO, Francis T. Christy, Jr., of Resources for the Future Inc., Michael Hardy and R. S. Lee of the United Nations Secretariat, Sydney J. Holt of IOC, E. Seabrook Hull, Editor of *Ocean Science News*, Myron Nordquist of the United States Department of State and the staff of the Libraries of the United Nations Information Centers in London and Washington, D. C.

In the final stages of the preparation of this work it has been my privilege to enjoy the intellectual resources of the Washington, D. C. area as a Fellow of the Woodrow Wilson International Center for Scholars during its first year of operation and it is a pleasure to have this opportunity to express my

appreciation to the Director, Mr. Benjamin H. Read, and his team and to the secretarial and library staff.

To my friend and teacher Professor Georg Schwarzenberger, I am grateful not only for his encouragement in the preparation of this study but also for his editorial recommendation for its publication in the Library of World Affairs.

For their courteous co-operation my thanks are due to the publishers and printers.

Finally, my greatest debt is to my wife who, while responding to the calls of wife, mother, and "Women's Lib," has still somehow managed to cope with a difficult manuscript and help me in countless other ways.

E. D. B.

WASHINGTON D. C.

March 12, 1971

INTRODUCTION

THE purpose of this book is twofold.

Its first object is to present an analysis of some of the most important current problems in the international law of the sea—delimitational questions; the regime of deep-sea mining and the prevention of marine pollution. As will be seen, Governments and international institutions have already done a considerable amount of work on these questions and have rightly treated each of them as an important question in itself. At the same time, however, these questions are so obviously inter-related that they can be adequately studied only if they are seen in a broader perspective.

The second object of this work is, therefore, to complement studies published separately on legal aspects of the military use of hydrospace¹ and of the protection of marine scientific research,² thus facilitating a comprehensive view of the developing law of hydrospace. It is hoped that these studies, taken together, will make a modest contribution to ensuring that, even if a single comprehensive conventional solution remains merely a desirable ideal, the answers produced separately to each of these problems will be developed in full awareness of the broader framework.

The international law of the sea is a very dynamic part of international law and, clearly, no single work can hope to cover thoroughly all of the aspects which have caused difficulties even during the post-1945 period. The emphasis in these studies has been largely determined by the desire to investigate the impact on the law of the sea of scientific and technological advances during the post-war era. For the same reason, the legal problems of what, in economic terms, is still by far the most important use of the seas—fishing—have not been considered in any depth, though reference is frequently made to fishery problems where they touch upon the main topics treated below.

The scope of this work *ratione loci* is also determined by functional considerations. Although it is primarily concerned with the sea-bed and subsoil, the problems raised by the exploitation of these areas extend to the superjacent waters and the overall problem for the law-maker is to develop not merely a legal regime for the sea-bed and the ocean floor but a regime for that part of the globe which extends vertically downwards from the air/sea interface to include the bed and subsoil of the seas and horizontally from land outwards to include the deep oceans. As a short-hand reference to this area, the term “hydrospace” is employed in this work.

¹ See E. D. Brown, *Arms Control in Hydrospace*, 1971, and “Law and Order on the Continental Margin and Ocean Floor,” in Center for the Study of Democratic Institutions, *Quiet Enjoyment: Arms Control and Police Forces for the Ocean* (Proceedings of *Pacem in Maribus* Preparatory Conference, 1970) 1971.

² See E. D. Brown, “Freedom of Scientific Research and the Legal Regime of Hydrospace,” 9 *Indian Journal of International Law* (1969), pp. 327–380.

The book falls into three main Parts.

Part I is concerned with the boundaries of the Continental Shelf, an issue which not only gives rise to difficult questions of delimitation but is intimately connected with the problem of devising a regime for the exploitation of the area beyond the outer limit of the Continental Shelf.

In Part II, consideration is given to the legal problems raised by one of the several users of hydrospace—Deep-Sea Mining, and, as mentioned above, two other users, the Military Uses of Hydrospace and Scientific Research in Hydrospace, are dealt with elsewhere.

The intensification of existing uses of hydrospace and the introduction of new uses brought about by scientific and technological advances have greatly increased the dangers of contamination of the seas by the varied products of our industrial society. Part III is accordingly devoted to a study of the developing law for the Environmental Protection of Hydrospace.

In a concluding section, the prospects for the future are briefly considered in the light of these studies.

In a work such as this, where the law is in a very fluid state and where developments *de lege ferenda*, if they are to be sensible, must reflect not only political realities but also technological realities, the writer is faced with two problems. First, his work is likely to be very quickly overtaken by events; in this case, for technical reasons, the cut-off date is, unless otherwise stated, August 1, 1970. Secondly, criticism of *lex lata* and proposals *de lege ferenda* are in this field peculiarly difficult to evaluate unless the reader possesses or is given a fairly full understanding of the technical subject matter with which the law is concerned. The writer is aware that he is unqualified for the several inter-disciplinary excursions made in the following chapters but feels that it is the better course to make explicit his understanding of the technical data on which his legal opinions are based.

CONTENTS

| | |
|---|-----|
| <i>Preface</i> | vii |
| <i>Table of Cases</i> | xi |
| <i>Table of Treaties</i> | xii |
| <i>Table of Resolutions of International Institutions</i> | xv |
| <i>Abbreviations</i> | xvi |
| <i>Introduction</i> | xix |

PART ONE: THE BOUNDARIES OF HYDROSPACE

| | |
|--|----|
| 1. THE OUTER LIMIT OF THE CONTINENTAL SHELF | 3 |
| Article I of the Geneva Convention | 4 |
| I—Ordinary Meaning | 5 |
| II—Equitable Interpretation—Intention of the Parties | 8 |
| III—Functional Interpretation | 31 |
| IV—The Judgment of the International Court of Justice in the North Sea Continental Shelf Cases | 32 |
| V—Conclusion | 35 |
| VI—Conventional Settlement of the Outer Limit | 36 |
| 2. DELIMITATION OF THE CONTINENTAL SHELF BETWEEN OPPOSITE AND ADJACENT STATES: THE NORTH SEA CONTINENTAL SHELF CASES | 41 |
| I—The Dispute | 41 |
| II—The Court's Central Argument | 43 |
| III—Stages in the Development of the Continental Shelf Doctrine | 47 |
| IV—"Special Circumstances" | 62 |
| V—Conclusions | 70 |
| Appendix: Equidistance—Principle and Method | 71 |
| APPENDIX TO PART ONE: NOTE ON SUBMARINE GEOLOGY | 74 |

PART TWO: THE UTILISATION OF HYDROSPACE

| | |
|---|-----|
| 3. THE LEGAL REGIME OF DEEP-SEA MINING | 81 |
| I—Status and Legal Regime of the Sea-bed and Subsoil beyond the Continental Shelf under International Customary Law | 81 |
| II—A Conventional Regime for Deep-Sea Mining | 103 |

PART THREE: ENVIRONMENTAL PROTECTION OF HYDROSPACE

| | |
|---|-----|
| INTRODUCTION | 127 |
| 4. THE PREVENTION OF OIL POLLUTION | 130 |
| I—Prevention of Oil Pollution at Source: The International Convention for the Prevention of Pollution of the Sea by Oil, 1954-1969 | 130 |
| II—Prevention of Oil Pollution at Source: The Geneva Convention on the Continental Shelf (1958) | 139 |
| III—Prevention of Oil Pollution: The Jurisdiction and Control of the Coastal State | 139 |
| IV—Prevention of Oil Pollution: Regional Co-operation in dealing with Significant Spillages of Oil | 158 |
| Agreement for Co-operation in dealing with Pollution of the North Sea by Oil (the Bonn Agreement) | 158 |
| 5. LIABILITY FOR OIL POLLUTION | 163 |
| I—Civil Liability for Oil Pollution | 163 |
| II—Oil Pollution and the Exploitation of the Continental Shelf | 181 |
| 6. NUCLEAR POLLUTION | 184 |
| I—The Testing or Use of Nuclear Weapons | 184 |
| II—The Use of Nuclear Devices for Peaceful Purposes | 184 |
| III—The Transport of Radioactive Substances | 185 |
| IV—The Disposal of Radioactive Wastes | 186 |
| 7. MARINE POLLUTION BY "OTHER HAZARDOUS SUBSTANCES" | 193 |
| I—Other Hazardous Substances Transported by Sea | 193 |
| II—Other Hazardous Substances: Pollution via Other Routes | 195 |
| III—A New Convention? | 199 |
| PROSPECT | 206 |
| <i>Appendix I: STATUS OF CONVENTIONS ON LAW OF THE SEA AS AT JANUARY 1, 1971</i> | 212 |
| <i>Appendix II: BILATERAL TREATIES ON THE CONTINENTAL SHELF</i> | 215 |
| <i>Appendix III: BIBLIOGRAPHICAL NOTE</i> | 217 |
| <i>Appendix IV: DECLARATION OF PRINCIPLES GOVERNING THE SEA-BED AND THE OCEAN FLOOR AND THE SUBSOIL THEREOF BEYOND THE LIMITS OF NATIONAL JURISDICTION</i> | 218 |
| <i>Appendix V: RESOLUTION ON LAW OF SEA CONFERENCE</i> | 221 |
| <i>Appendix VI: MEMBERSHIP OF UNITED NATIONS COMMITTEE ON THE PEACEFUL USES OF THE SEA-BED AND THE OCEAN FLOOR BEYOND THE LIMITS OF NATIONAL JURISDICTION</i> | 224 |
| <i>Index of Persons</i> | 227 |
| <i>Subject Index</i> | 229 |

TABLE OF CASES

| | |
|--|---|
| Anglo-Norwegian Fisheries Case (I.C.J.—1951) | 40, 83, 128 |
| Annakumar Pillai v. Muthupayal (1904—India) | 83 |
| Argentine-Chile Frontier Case (1966) | 18 |
| Behring Sea Arbitration (1893—G.B.—U.S.) | 83, 128 |
| Case Concerning Sovereignty over Certain Frontier Land (I.C.J.—1959) | 18 |
| Corfu Channel Case (I.C.J.—1949) | 102, 182 |
| Eastern Greenland Case (P.C.I.J.—1933) | 84 |
| Faber Case (1903—Germany—Venezuela) | 143 |
| Grisbadarna Case (P.C.A.—1909) | 60, 67, 69, 70 |
| <i>Mary Lowell, The</i> (1879—Spain—U.S.) | 142 |
| Minquiers and Ecrehos Case (I.C.J.—1953) | 18 |
| <i>Neptune, The</i> (1797—G.B.—U.S.) | 144 |
| North Sea Continental Shelf Cases (I.C.J.—1969) | 5, 6, 21, 22, 27, 29, 32–35, 39, 41–73, 99 |
| Oscar Chinn Case (P.C.I.J.—1934) | 143, 144 |
| Petroleum Development (Qatar) Ltd. v. The Ruler of Qatar (1950) | 83 |
| Petroleum Development (Trucial Coast) Ltd. v. Sheikh of Abu Dhabi (1951) ... | 52, 83 |
| Russian Indemnity Case (P.C.A.—1912) | 144 |
| Trail Smelter Arbitration (1938–41—Canada—U.S.) | 181 |
| United States v. California (1965—U.S.) | 48 |
| — v. Ray (1969—U.S.) | 93 |

TABLE OF TREATIES

[See also Appendix I—Status of Conventions on Law of Sea and Appendix II—
Bilateral Treaties on the Continental Shelf]

| | | |
|-----------|--|---|
| 1882 | Convention for Regulating the Police of the North Sea Fisheries | 159 |
| 1884 | Convention for the Protection of Submarine Cables | 88, 97 |
| 1897 | Anglo-Venezuelan Treaty | 70 |
| 1919-1953 | Constitution of the International Labour Organisation | 120 |
| 1924 | Convention on the Limitation of Liability of Owners of Sea-going Vessels | 173, 180 |
| 1944 | Articles of Agreement of International Monetary Fund | 120 |
| 1944-1961 | Convention on International Civil Aviation | 120 |
| 1947 | Treaty of Peace with Finland | 70 |
| 1948-1965 | Convention on the Inter-governmental Maritime Consultative Organisation | 120 |
| 1952 | Santiago Agreement/Declaration between Chile, Ecuador and Peru | 26 |
| 1954 | Agreement supplementing the Santiago Agreement (1952) | 26 |
| 1954-1969 | International Convention for the Prevention of Pollution of the Sea by Oil | 88, 130-139, 142, 145, 146, 151, 162, 197, 201, App. I |
| | Article I | 131, 132, 136, 137, 150 |
| | Article II | 131, 132 |
| | Article III | 131-134, 136, 138 |
| | Article IV | 133, 134, 138 |
| | Article V | 133, 138 |
| | Article VI | 134 |
| | Article VII | 133, 138 |
| | Article VIII | 132, 134 |
| | Article IX | 88, 134, 138, 205 |
| | Article X | 88, 135, 138, 205 |
| | Article XVI | 130 |
| 1957 | Brussels Convention relating to the Limitation of Liability of Owners of Sea-going Ships | 169, 173, 174, 175, 180 |
| 1958 | Agreement between Bahrain and Saudi Arabia on the Delimitation of Adjacent Parts of the Continental Shelf | 60, App. II |
| | Geneva Convention on the Territorial Sea and the Contiguous Zone | 48, 69, App. I |
| | Article 1 | 148 |
| | Article 4 | 69 |
| | Article 6 | 72 |
| | Article 12 | 69, 70, 72 |
| | Article 20 | 180 |
| | Article 24 | 94, 95, 139, 145 |
| | Geneva Convention on the High Seas | App. I |
| | Preamble | 128 |
| | Article 2 | 87, 97, 128 |
| | Article 8 | 87 |
| | Article 9 | 87, 152, 180 |
| | Article 11 | 87 |
| | Article 13 | 88 |
| | Articles 14-21 | 95 |
| | Article 15 | 95, 142 |
| | Article 16 | 142 |
| | Article 19 | 87 |
| | Article 22 | 87, 88 |
| | Article 23 | 88 |
| | Article 24 | 128, 129, 182 |
| | Articles 24-29 | 88 |
| | Article 25 | 129, 185, 186, 190, 195 |
| | Article 26 | 97 |
| | Articles 26-29 | 97, 182 |
| | Geneva Convention on the Continental Shelf | 7, 15, 19, 81, 82, 86, 87, 90, 95, 102, 139, 182, App. I |

| | | |
|------|---|---|
| | Article 1 | 4-36, 58, 82, 99, 114, 152 |
| | Articles 1-3 | 58 |
| | Article 2 | 21, 22, 29, 32, 33, 67, 82, 90, 91, 92, 99 |
| | Article 3 | 87, 88, 89, 90 |
| | Articles 3-5 | 69, 82 |
| | Article 4 | 97 |
| | Article 5 | 54, 68, 88, 89, 95, 96, 98, 100, 101, 128, 129, 183 |
| | Article 6 | 5, 41-73, 82, 99 |
| | Article 12 | 16, 58 |
| | Article 13 | 29 |
| | Geneva Convention on Fishing and Conservation of the Living Resources of the High Seas | 5, App. I |
| | Optional Protocol on the Compulsory Settlement of Disputes | 7, App. I |
| 1960 | International Convention on the Safety of Life at Sea | 185 |
| 1962 | Convention on the Liability of Operators of Nuclear Ships | 180 |
| | Treaty of Commerce, Establishment and Navigation between the United Kingdom and Japan | 177 |
| 1963 | Nuclear Test Ban Treaty | 184 |
| 1964 | Agreement between Germany and the Netherlands on the Boundary of the Continental Shelf | 42, 70 |
| | Exchange of Notes between Japan and the U.S. on King Crab Fishery in Behring Sea | 93 |
| 1965 | Agreement between Denmark and Germany on the Continental Shelf Boundary | 42, 70 |
| | Protocol thereto concerning the Baltic Continental Shelf | 60 |
| | Agreement between Denmark and Norway on the Boundary of the Continental Shelf in the Skagerrak | 17, 59 |
| | Agreement between Finland and the Soviet Union on Boundaries of Sea Waters and Continental Shelf in the Gulf of Finland | 70 |
| | Agreement between the Netherlands and the United Kingdom relating to the Delimitation of the Continental Shelf under the North Sea | 24 |
| | Agreement between the United Kingdom and Norway on Delimitation of the Continental Shelf | 7, 17, 59 |
| 1966 | Exchange of Notes between Japan and the U.S. on King Crab Fishery in the Behring Sea | 93 |
| | International Convention for the Conservation of Atlantic Tunas | 6 |
| 1968 | Agreement between Italy and Yugoslavia on the Delimitation of the Continental Shelf | 60 |
| | Agreement between Norway and Sweden on Delimitation of the Contin- ental Shelf | 59, 70 |
| | Agreement between Saudi Arabia and Iran on Delimitation of the Con- tinental Shelf | 60 |
| | Exchange of Notes between Japan and the U.S. on King Crab Fishery in the Behring Sea | 93 |
| 1969 | Bonn Agreement for Co-operation in Dealing with Pollution of the North Sea by Oil | 158-162, 193 |
| | International Convention relating to Intervention on the High Seas in Cases of Oil Pollution Casualties | 91, 140, 141 146-158, 193, 194, 201, 205, App. I |
| | Article I | 147-150, 152-156 |
| | Article II | 149-152, 160 |
| | Article III | 152, 153, 156 |
| | Article IV | 152 |
| | Article V | 152-154 |
| | Article VI | 154-156, 158 |
| | Article VII | 157 |
| | Article VIII | 151, 156, 205 |
| | Article IX | 147 |
| | Article XI | 147 |
| | Article XII | 147 |
| | International Convention on Civil Liability for Oil Pollution Damage | 164-181, 193, 194, 201, App. I |
| | Article I | 150, 166, 167, 170 |
| | Article II | 168, 170 |
| | Article III | 166, 171, 172, 179 |
| | Article IV | 174 |
| | Article V | 169, 173, 174, 175, 177, 178, 179 |
| | Article VI | 174 |
| | Article VII | 169, 175, 176, 177, 178 |

| | |
|--|-------------------------|
| Article IX | 169, 174, 178, 179, 180 |
| Article X | 178, 179 |
| Article XI | 180 |
| Article XII | 180, 181 |
| Article XIII | 164 |
| Article XV | 164 |
| Article XVI | 165 |
| Vienna Convention on the Law of Treaties | 5, 157 |

TABLE OF RESOLUTIONS OF INTERNATIONAL INSTITUTIONS

| | | |
|------|---|-----------------------------------|
| 1958 | UNCLS Resolution on Pollution of the High Seas by Radioactive Materials | 186 |
| 1965 | General Assembly Resolution A/RES/2029 (XX) establishing UNDP ... | 122 |
| 1966 | ECOSOC Resolution E/RES/1112 (XL) on Non-agricultural Resources | 110, 111 |
| | General Assembly Resolution A/RES/2172 (XXI) on Survey of Activities in Marine Science and Technology | 111 |
| 1967 | General Assembly Resolution A/RES/2340 (XXII) establishing <i>Ad Hoc</i> Committee on Sea-Bed | 111 |
| 1968 | General Assembly Resolution A/RES/2398 (XXIII) on Convening U.N. Conference on Human Environment | 198 |
| | General Assembly Resolution A/RES/2414 (XXIII) on International Co-operation in Problems Related to the Oceans | 111 |
| | General Assembly Resolution A/RES/2467 A (XXIII), establishing standing Committee on the Peaceful Uses of the Sea-Bed, etc. 112, App. VI | |
| | General Assembly Resolution A/RES/2467 B (XXIII) on U.N. Secretariat Pollution Report | 196, 200 |
| | General Assembly Resolution A/RES/2467 C (XXIII) on the Question of Establishing Appropriate International Machinery for the Sea-Bed | 112 |
| | General Assembly Resolution A/RES/2467 D (XXIII) on International Decade of Ocean Exploration | 195 |
| | IMCO Resolution A. 149 (ES. IV) on Bonn Agreement on Oil Pollution | 162 |
| 1969 | General Assembly Resolution A/RES/2574 A (XXIV) on Desirability of Convening Law of Sea Conference | 29 |
| | General Assembly Resolution A/RES/2574 D (XXIV)—Moratorium on Sea-Bed Exploitation | 30, 99 |
| | IMCO Resolution A.176 (VI) on International Conference on Marine Pollution (1973) | 198 |
| | International Legal Conference on Marine Pollution Damage (Brussels): Resolution on Establishment of an International Compensation Fund | 166, 172-173 |
| | Resolution on Report of the Working Group on the Fund 166, 172-173 | |
| | Resolution on International Co-operation concerning Pollutants other than Oil | 194 |
| 1970 | General Assembly Resolution A/RES/2566 (XXIV) on Promoting Effective Measures for the Prevention and Control of Marine Pollution | 196, 198, 199 |
| | General Assembly Resolution A/RES/2581 (XXIV) on Preparation of U.N. Conference on Human Environment | 198 |
| | General Assembly Resolution A/RES/2749 (XXV)—Declaration of Principles Governing the Sea-Bed and the Ocean Floor, etc. ... 30, 84, 99, 200, App. IV | |
| | General Assembly Resolution A/RES/2750 C (XXV) on Law of Sea Conference (1973) | 30, 36, 112, 198, App. V, App. VI |
| | Recommendation 585 of Consultative Assembly of Council of Europe on regional oil pollution agreements | 162 |

ABBREVIATIONS

| | | |
|---|-----|---|
| A.J.I.L. ... | ... | <i>American Journal of International Law</i> |
| Alexander, I ... | ... | <i>Sea Institute Proceedings</i> (1967) ... L. M. Alexander (ed.), <i>The Law of the Sea. Offshore Boundaries and Zones</i> , Proceedings of the First Annual Conference of the Law of the Sea Institute, University of Rhode Island (1966), 1967 |
| Alexander, II ... | ... | <i>Sea Institute Proceedings</i> (1968) ... L. M. Alexander (ed.), <i>The Law of the Sea. The Future of the Sea's Resources</i> , Proceedings of the Second Annual Conference (1967), 1968 |
| Alexander, III ... | ... | <i>Sea Institute Proceedings</i> (1969) ... L. M. Alexander (ed.), <i>The Law of the Sea. International Rules and Organisation for the Sea</i> , Proceedings of the Third Annual Conference (1968), 1969 |
| Alexander, IV ... | ... | <i>Sea Institute Proceedings</i> (1969) ... L. M. Alexander (ed.), <i>The Law of the Sea. National Policy Recommendations</i> , Proceedings of the Fourth Annual Conference (1969), 1970 |
| <i>Annuaire français</i> ... | ... | <i>Annuaire français de droit international</i> |
| <i>A.S.I.L. Proceedings</i> ... | ... | <i>Proceedings of the American Society of International Law</i> |
| B.F.S.P. ... | ... | <i>British and Foreign State Papers</i> |
| B.I.I.C.L. ... | ... | British Institute of International and Comparative Law |
| B.Y.I.L. ... | ... | <i>British Yearbook of International Law</i> |
| CCD ... | ... | Conference of the Committee on Disarmament (formerly ENDC) |
| CCMS ... | ... | NATO Committee on the Challenges of Modern Society |
| C.L.P. ... | ... | <i>Current Legal Problems</i> |
| CMI ... | ... | <i>Comité Maritime International</i> |
| Cmnd. ... | ... | Command Papers (United Kingdom), 1965- |
| <i>CMSER Report</i> ... | ... | [U.S.] Commission on Marine Science Engineering and Resources, <i>Our Nation and the Sea. A Plan for National Action</i> , 1969 |
| CRISTAL ... | ... | Contract Regarding an Interim Supplement to Tanker Liability for Oil Pollution |
| d.w.t. ... | ... | dead weight tonnage |
| ECOSOC ... | ... | Economic and Social Council of the United Nations |
| ENDC ... | ... | Eighteen Nation Disarmament Committee |
| ENEA ... | ... | European Nuclear Energy Agency |
| FAO ... | ... | Food and Agricultural Organisation |
| GARP ... | ... | Global Atmospheric Research Programme |
| GESAMP ... | ... | Group of Experts on the Scientific Aspects of Marine Pollution |
| GNEM ... | ... | Global Network for Environmental Monitoring |
| <i>Grotius Transactions</i> ... | ... | <i>Transactions of the Grotius Society</i> |
| G. Schwarzenberger, <i>Fundamental Principles</i> ... | ... | G. Schwarzenberger, "The Fundamental Principles of International Law," 87 <i>Hague Recueil</i> (1955) |
| <i>Hague Recueil</i> ... | ... | <i>Recueil des Cours, Académie de Droit International de la Haye</i> |
| H.M.S.O. ... | ... | Her Majesty's Stationery Office |
| Hudson, Int. Leg. ... | ... | Hudson, M. O., <i>International Legislation, 1931-1950</i> (9 vols.) |
| IAEA ... | ... | International Atomic Energy Agency |
| ICAO ... | ... | International Civil Aviation Organisation |
| ICE ... | ... | International Center for the Environment |
| ICES ... | ... | International Council for the Exploration of the Sea |
| I.C.J. ... | ... | International Court of Justice |
| ICLQ ... | ... | <i>International and Comparative Law Quarterly</i> |
| ICO ... | ... | Interagency Committee on Oceanography of the U.S. Federal Council for Science and Technology |
| ICRP ... | ... | International Commission on Radiological Protection |

| | |
|--|---|
| ICSU | International Council of Scientific Unions |
| IGOSS | Integrated Global Ocean Station System |
| ILA | International Law Association |
| ILC | International Law Commission |
| I.L.M. | <i>International Legal Materials</i> |
| ILO | International Labour Organisation |
| IMCO | Inter-Governmental Maritime Consultative Organisation |
| IMF | International Monetary Fund |
| <i>Indian J.I.L.</i> | <i>Indian Journal of International Law</i> |
| <i>Indian Y.B.I.A.</i> | <i>Indian Year Book of International Affairs</i> |
| IOC | Intergovernmental Oceanographic Commission |
| IWGMF | Intergovernmental Working Group on Marine Pollution |
| LEPOR | Long-term and Expanded Programme of Oceanic Exploration and Research |
| LOT | Load-on-Top (see p. 135) |
| MAB | Man and the Biosphere Programme |
| NATO | North Atlantic Treaty Organisation |
| NPC | National Petroleum Council |
| N.R.L. | <i>Natural Resources Lawyer</i> |
| ODAS | Ocean Data Acquisition System |
| <i>Panel Reports</i> | [U.S.] Commission on Marine Science, Engineering and Resources, Panel Reports, Vols. 1-III, 1969 |
| P.C.A. | Permanent Court of Arbitration |
| P.C.I.J. | Permanent Court of International Justice |
| p.p.m. | parts per million |
| PV | Provisional Verbatim |
| <i>Recueil Guggenheim</i> | <i>Recueil d'Études de Droit International en Hommage à Paul Guggenheim</i> , 1968 |
| R.G.D.I.P. | <i>Revue générale de droit international public</i> |
| R.I.A.A. | <i>Reports of International Arbitration Awards</i> |
| <i>Rome Proceedings</i> | British Advisory Committee on Oil Pollution of the Sea, et al.: International Conference on Oil Pollution of the Sea, Rome, October 1968 |
| <i>Rome Symposium</i> | <i>Istituto Affari Internazionali: Symposium on the International Regime of the Sea-Bed</i> (Rome, June-July 1969), <i>Proceedings</i> , 1970 |
| <i>Rutgers L. R.</i> | <i>Rutgers Law Review</i> |
| SCOPE | Special Committee on the Problems of the Environment (of ICSU) |
| SIPRI | Stockholm International Peace Research Institute |
| <i>SIPRI Yearbook</i> | SIPRI Yearbook of World Armaments and Disarmament 1969/70, 1970 |
| SOLAS | Safety of Life at Sea |
| TOVALOP | Tanker Owners Voluntary Agreement concerning Liability for Oil Pollution |
| U.K.T.S. | United Kingdom Treaty Series |
| UNCLS | United Nations Conference on the Law of the Sea |
| UNCTAD | United Nations Conference on Trade and Development |
| UNDP | United Nations Development Programme |
| UNESCO | United Nations Educational Scientific and Cultural Organisation |
| UN Leg. Ser. I, 1951 | United Nations Legislative Series, <i>Laws and Regulations on the Regime of the High Seas</i> , Vol. 1, 1951 |
| UN Leg. Ser. Supplement, 1959 | United Nations Legislative Series, <i>Supplement to Laws and Regulations on the Regime of the High Seas</i> (Vols. I and II), 1959 |
| <i>UN Survey (1968)</i> | United Nations Secretariat, <i>Survey of National Legislation concerning the Sea-Bed and the Ocean Floor, and the Subsoil thereof, underlying the High Seas beyond the Limits of Present National Jurisdiction</i> , A/AC. 135/11, June 4, 1968 |
| <i>UN Survey (1968), Add. 1</i> | Addendum to <i>U.N. Survey 1968</i> , A/AC. 135/11/Add. 1, August 13, 1968 |
| U.N.T.S. | United Nations Treaty Series |
| <i>U.S. Commission Report</i> | <i>Our Nation and the Sea. The Report of the [U.S.] Commission on Marine Science, Engineering and Resources</i> , 1969 |
| WEI | World Environment Institute |
| <i>Whitman Digest</i> | Whitman, M. M., <i>Digest of International Law</i> , 1963- |

| | | | | |
|--------------|-----|-----|-----|---|
| WHO | ... | ... | ... | World Health Organisation |
| WMO | ... | ... | ... | World Meteorological Organisation |
| Z.A.Ö.R.V.R. | ... | ... | ... | <i>Zeitschrift für ausländisches öffentliches Recht und Völkerrecht</i> |