10 Principles of international environmental law

Among the earliest international environmental agreements were the Regulations adopted by the Arbitral Tribunal established to resolve the dispute hetween the USA and Great Britain over the exploitation of fur seals in the Pacific. The USA had sought to prevent British vessels from overexploiting Pacific fur seals in international waters of the Bering Sea. The Regulations adopted by the Tribunal provided for the 'proper protection and preservation' of fur seals outside jurisdictional limits, which prohibited killing during certain seasons, limited methods and means of fur sealing, and included exceptions for indigenous activities. These Regulations have served as an important precedent for the subsequent development of international environmental law.

Since the 1893 award adopted by the Tribunal, international environmental law has come a long way, and a basic structure of institutions, principles and standards is now in place. The international community's recognition that environmental problems transcend national boundaries has resulted in the development of the important new field of international environmental law. It recognizes that ad hoc, disparate and reactive policy responses by individual states or local communities cannot effectively address the growing range of environmental problems faced by the international community. These have grown exponentially with advances in technology, industrialization and scientific understanding. As a consequence environmental law – itself a relatively into an area increasingly governed by regional and global obligations.

Overexploitation of natural resources, loss of biological diversity, ozone depletion, climate change, acid rain, deforestation, desertification, air and some of the threats currently facing the planet. At the United Nations Conference on Environment and Development (UNCED), held in Rio de Janeiro in June 1992, poverty and international debt were added to the official list of the properly considered to be concerns for international environmental law. Each international law and organization. Indeed it is already clear that the combiner what should be done, and political action as to what can be done, has already led to an explosion of new international laws addressing environment.

legislation and activism. which, until recently, were thought to lie beyond the range of environmental broad in their scope and sophisticated in their approach, and penetrate issues tal issues. They have gained increasingly wide acceptance, are increasingly

Section 3 addresses compliance, including implementation, enforcement and including general principles and specific topics which have been addressed Section 2 identifies the basic principles of international environmental law briefly describes the context of the subject, its historic development, the dispute settlement tional legal order within which environmental challenges fail to be addressed primary sources of obligation, the institutional arrangements, and the tradi-This part of the book is divided into three parts: section 1 (Introduction)

Introduction

1.1 The international legal order

early fisheries conventions in the middle of the nineteenth century, more than states, representing the interest of local fishing communities, negotiated the environment. At each level the task becomes progressively more complex as national community in their efforts to protect the local, regional and global cooperation and collaboration between the various members of the internew actors and interests are drawn into the legal process: whereas just two International law and organizations provide the central basis for international represented a comprehensive range of economic and industrial interests. 150 states negotiated the 1992 Climate Change Convention and in so doing

more states, or in areas beyond the jurisdiction and control of any state might be felt within the borders of a state, or across the boundaries of two or because of their actual or potential impact upon the environment. The impact tions place limits upon the activities which may be conducted or permitted follow certain required practices. In relation to the environment these obligawhich impose binding obligations requiring states and other members of the function serves as the basis for the creation of legal principles and rules behaviour and resolve their differences. The proper functions of international members of the international community may cooperate, establish norms of under, are intended to serve similar functions. The overall objective of the international community to conform to certain norms of behaviour and to law are legislative, administrative and adjudicative functions. The legislative international legal order is to provide a framework within which the various together with the international organizations that have been established there In both cases, however, the principles and rules of public international law

various actors to ensure that the standards imposed by the principles and The administrative function of international law allocates tasks to the

> or fora to allow the pacific settlement of differences or disputes which arise environment. rules of international environmental law are carried out. The adjudicative ral resources or the conduct of activities which will impact upon the between members of the international community involving the use of natufunction of international law aims, in a limited way, to provide mechanisms

Sovereignty and resources

community which comprises states, international organizations and a broad territory and the natural resources found there. Additionally each state has a states means that each has jurisdiction, which is prima facie, exclusive over its economic, social, political or other nature. The sovereignty and equality of members of the international community, notwithstanding differences of an are sovereign and equal, which means that they have equal rights and duties as under those rules. As the dominant actor in the international legal order states the rules of international law and the principal holders of rights and obligations dominant role in the international legal order, both as the principal creators of range of non-governmental actors. States continue to play the primary and The international legal order thus regulates the activities of an international duty not to intervene in the area of exclusive jurisdiction of other states.

policies and laws in respect of the natural resources and the environment of territory means, in principle, that they alone have the competence to develop heir territory, which comprises: The sovereignty and exclusive jurisdiction of the 190 or so states over their

- land within its boundaries, including the subsoi
- internal waters, such as lakes, rivers and canals
- territorial sea, which is adjacent to the coast, including its seabed and
- point at which the legal regime of outer space begins. airspace above its land, internal waters and territorial sea, up to the

economic zones'. continental shelf, its seabed and subsoil; certain fishing zones; and 'exclusive other areas including; a contiguous zone adjacent to their territorial seas; the Additionally states have more limited sovereign rights and jurisdiction over

a part of the global commons. no a majority of states, the Antarctic. The atmosphere is also considered to be include the high seas and its seabed and subsoil, outer space, and, according non. These areas, which are sometimes referred to as the global commons, erritory of any state and in respect of which no state has exclusive jurisdic-As a result of these arrangements certain areas are left to fall outside the

This apparently straightforward international legal order apparently worked satisfactorily as an organizing structure until technological developments permeated national boundaries. The structure does not coexist comfortably with an environmental order which consists of a biosphere of interdependent ecosystems which do not respect artificial territorial boundaries between states. As an ecological matter, if not a legal one, many natural resources and their environmental components are shared, and the use by any one state of the natural resources within its territory will invariably have consequences for the use of natural resources and their environmental components in another state.

This is self-evident where, for example, a river runs through two or more countries, or living resources migrate between two or more sovereign territories. What is less evident, and has only become apparent in recent years, is that apparently innocent activities in one country, such as the release of chlorofluorocarbons, can have significant effects upon the environment in areas beyond national jurisdiction with consequential harmful effects within the territory of a state. Ecological interdependence therefore poses a fundamental problem for international law, and explains why international cooperation and the development of shared norms of behaviour in the environmental field is indispensable: the challenge for international law in the world of sovereign states is to reconcile the fundamental independence of each state with the inherent and fundamental interdependence of the environment. A further matter arises as a result of existing territorial arrangements which leave certain areas outside any state's territory: how can the protection of areas beyond the national jurisdiction of any state be addressed?

1.3 International actors

Although states remain far and away the most important actors, the history of international environmental law reflects the central role played by international organizations and non-governmental field provides clear evidence that international law is gradually moving away from the view that international society comprises only a community of states, and is increasingly extending its scope to encompass the persons (both legal and natural) within and among its scope to encompass the persons (both legal and natural) within and among those states. This feature is similar to the human rights field, where non-governmental actors and international organizations also have an expanded role. This new reality is now reflected in many international legal instruments, especially the Rio Declaration on environment and development and Agenda 21 adopted at UNCED, which recognize and call for the further development of the role of international organizations and non-governmental actors in virtually all aspects of the international legal process which relates to environment and development.

These various actors have different roles and functions, both as subjects and objects of international environmental law. These functions and roles include, principally: participating in the lawmaking process; monitoring implementation, including reporting; and ensuring enforcement of obligations. The extent to which the different actors contribute to that process turns upon the extent to its international legal personality and the rights and obligations granted to it by general international law as well as the specific rules established by particular treaties and other rules. The Rio Declaration and Agenda 21, as well as an increasing number of international environmental agreements, envisage an expanded role for international organizations and non-governmental actors in virtually all aspects of the international legal

European Group. comprising some 155 states, are the developing states which form the Group currently referred to as 'economies in transition'. The rest of the world, tries. Developed countries include the 24 member states of the OECD and the not. Broadly speaking they are divided into developed and developing coun-Asia Group; Western European and others group; and Central and Eastern hve groupings are Latin America and the Caribbean Group; African Group, regional groupings, usually for the purpose of elections to UN bodies. The of 77. The Group of 77 often works as a single negotiating bloc within the Il states which previously formed part of the 'Soviet' bloc. The latter are framework of the UN. Within the UN system states are also arranged into 181 member states of the United Nations (UN), and another dozen or so are pation of other actors in the international legal process. There are currently principles and rules, create international organizations and permit the particilaw. It is still states which create, adopt and implement international legal 13.1 States States are the primary and principal subjects of international

requently in environmental negotiations these rather simple distinctions tend to break down as states pursue what they perceive to be their vital national interests, including their strategic alliances, an issue which may be unrelated to environmental matters. The UNCED negotiations illustrated the extent of the differences which often existed between and among developed states and developing states on the particularly contentious issues: atmospheric emissions, conservation of marine mammals, protection of forests, institutional arrangements and financial resources.

1.3.2 International organizations The international organizations involved in environmental matters make up a complex and unwieldy network at the global, regional, subregional and bilateral levels. It is unlikely that any international organization today will not have some responsibility over international

stand their activities and their interests they can, however, be divided into three general categories: global organizations under the auspices of, or rereference to any functional, sectoral or geographic criteria. To help undertions in the environmental field makes it difficult to assess their role by the UN system; and organizations established by environmental and other lated to, the UN and its specialized agencies; regional organizations outside environmental matters. The decentralized nature of international organiza-

separate but interrelated legal functions and roles are performed by intercombination, of roles of a judicial, legislative and administrative nature. The ronmental issues and problems. International organizations fulfil each, or a national organizations. Apart from very specific functions required of particular organizations, five preted and applied by the practice of the organization and the parties to it the powers granted to it by its constituent instrument as subsequently interactual functions of each institution will depend to a very large extent upon in the development and management of international legal responses to enviinternational agreements. International organizations perform a range of different functions and role

establish binding obligations or which might reflect rules of customary law develop policy initiatives and standards, and may even adopt rules which national legal obligations, including 'soft law'. International organizations is the contribution of international organizations to the development of interestablishment of new and subsidiary institutional arrangements. including in relation to the development of procedural standards and the tation between states and between states and the organization. A third function they play an informational role: they receive and disseminate information facilitate information exchange, and provide for formal and informal consultween states on matters of international environmental management. Second First, they provide a forum for general cooperation and coordination be

independent forum, or mechanism, for the settlement of disputes, usually tional matters, including capacity-building. A fifth function is to provide an environmental treaties as a means of reviewing progress in implementation. tion of reports or periodic communications from parties to international of forms, including receiving information from parties or other persons on an and compliance with those standards and obligations. This may take a number formal or informal advice on technical, legal and administrative of institu-Assisting in implementation can also take place through the provision of informal and ad hoc basis, or it may entail the regular receipt and consideralished, institutions increasingly play a role in ensuring the implementation of between states Once environmental and other standards and obligations have been estab-

> tions which have been adopted at regional and global level. In the past two negotiations; and they can use a variety of efforts to ensure the national and role of non-governmental organizations and call for their 'expanded role'.2 viduals. The Rio Declaration and Agenda 21 affirm the important partnership business concerns; legal organizations; the academic community; and indinon-profit environmental groups and associations; private companies and development of international environmental law; the scientific community; decades at least six different types of NGO have emerged as actors in the frequently participate as observers in international organizations and in treaty al law, and continue to play an influential role in a variety of different ways. historically played an important role in developing international environmeninternational implementation of, and compliance with, standards and obliga-They can identify issues which require international legal action; they may 1.3.3 Non-governmental actors (NGOs) Non-governmental actors have

1.4 Defining the environment in international law

a generally accepted usage as a term of art under international law, recent sition, soils and sediments, water quality, biology and humans. These scientific refer to the environment and seek to include some form of working definition are included in the term with a fair degree of consistency. Although the 1972 agreements have tended to identify the various environmental media which found in treaties, and although the term 'environment' cannot be said to have definitions are transformed by the political process into the legal definitions issues into 'compartments': these include the atmosphere, atmospheric depoeconomic considerations. A scientific approach tends to divide environmental groupings, as well as political acts which tend to incorporate cultural and Physical structures or the interaction among these factors'.3 Tauna, soil, air, water, climate, landscape and historical monuments or other defined by reference to impacts, includes 'human health and safety, flora, 1992 Transboundary Watercourses Convention the 'environment' which is lend to adopt broad definitions. Under the 1991 Espoo Convention and the land, flora and fauna and ... natural ecosystems'. Those treaties which do Principle 2 refers to the natural resources of the earth as including 'air, water, Stockholm Declaration does not include a definition of the environment, Legal definitions of the 'environment' reflect scientific categorizations and

1.5 Sources of international environmental law

states and other members of the international community arise include: states and other members of the international community in their relations with each other. The sources from which the binding rights and obligations of international law can be defined as those rules which are legally binding on

- bilateral or multilateral treaties
- binding acts of international organizations
- rules of customary international law
- judgements of international courts or tribunals

reflecting rules of customary law. informally establishing acceptable norms of behaviour and by 'codifying' or by pointing to the likely future direction of formally binding obligations, by Additionally rules of 'soft law' which are not binding play an important role,

cas. All industrial activity is, however, prohibited by treaty in the Antarctic. in other parts of the world. Regional treaties are less well-developed in Africa, rules which frequently provide a basis for regional and global measures adopted industrialized countries have adopted a large body of regional environmental increasing, number of global treaties. European (in particular EC) and other thousands, supplemented by dozens of regional agreements and a smaller, but existence, the number of bilateral environmental agreements runs into the globally (participation is open to all states). With more than 180 states now in (between states in a particular region geographically or politically defined) or and so on) which can be adopted bilaterally (between two states), regionally in the form of treaties (also referred to as conventions, protocols, agreements the Caribbean and Oceania, and virtually non-existent in Asia and the Ameri-In practice the most important sources are binding international agreements

without binding legal effects they establish. Those acts which do not have environmental treaties allow the institutions a choice of adopting acts with or in the form of acts of international organizations rather than by treaty. Many customary law. Binding acts of international organizations derive their legal reflecting a rule of customary international law. binding legal consequences could, however, subsequently be relied upon as international decisions affecting the use of natural resources have been adopted fore be considered as part of treaty law; some of the more far-reaching authority from the treaty on which their adoption was based, and can thereterred to as soft law, can also, sometimes, contribute to the development of authoritatively interpret treaty obligations. Non-binding acts, frequently renot legally binding per se they may amend existing obligations, or they can international law; they may be legally binding in themselves, or if they are times referred to as secondary legislation, can provide an important source of decisions or other measures. Such acts of international organizations, somements establish institutional organs with the power to adopt certain acts, international organizations. Almost all international environmental agree-The second principal source of international obligation arises from acts of

treaty and acts of international organizations should not obscure the import-The primary role of international environmental obligations adopted by

> juris (the belief that practice is required by law). tions and by contributing to the codification of obligations in the form of the two elements of customary international law: state practice and opinion Article 38(1)(b) of the Statute of the International Court of Justice identifies detailed guidance as to the precise context or scope of any particular rule. evidence of consistent state practice, which practice will rarely provide any rule of customary international law is made difficult by the need to provide jected to a practice and its legal consequences. Establishing the existence of a states within a particular region) except those which have persistently obthe fact that as a general matter it establishes obligations for all states (or all treaty rules and other binding acts. The significance of customary law lies in Customary law rules fulfil a number of functions, by creating binding obligaant, albeit secondary, role which is played by customary international law

sources of 'soft law', reflected in guidelines, recommendations and other values and priorities in environment and development". the 1972 Declaration of Principles of the 1972 Stockholm Conference, the development of binding rules. The most important sources of 'soft law' are of customary international law, and often reflect trends which lead to the provide evidence of state practice which might support the existence of a rule non-binding acts adopted by states and international institutions. These can to the extent any international instrument can do so, the current consensus of 1982 World Charter for Nature and the 1992 Rio Declaration, which reflect These sources of binding obligation are supplemented by non-binding

Opinion (concerning the legality of nuclear weapon use). of a dam on the Danube River) and the World Health Organization Advisory cases: the Grabcikovo-Nagymaros Project Case (concerning the construction and the Nuclear Tests Cases (on the legality of atmospheric nuclear tests) law, particularly in the Icelandic Fisheries Cases (on fisheries conservation) of Justice have also contributed to the corpus of international environmental (concerning the use of a shared river). Judgments of the International Court (concerning transboundary air pollution) and the Lac Lanoux Arbitration principles had been elaborated by Arbitral Tribunals in the Trail Smelter Case tion, and before states had adopted many 'international statutes' important understated. Mention has already been made of the Pacific Fur Seal Arbitrateular, in the development of international environmental law cannot be international environmental law. The importance of arbitral awards, in parsented to such bodies, identify some general principles and rules of The Court is currently faced with two potentially important environmental The case law of international courts and tribunals, and arguments pre-

attempted to create such a framework. institutional framework. The 1972 Stockholm Conference and then UNCED international environmental law had arisen without a coordinated legal and integrate environmental costs into production costs and thereby gaining competitive advantage in international markets. Until recently it was evident that mental standards may lead to certain countries' industries not having to justify international measures by arguing that disparities in national environindividual accidents or incidents. More recently some states have sought to natural resources do not respect artificial, international legal boundaries; and greater recognition of ecological interdependence and the fact that many improved scientific understanding of natural processes which have led to a developments that lead to increased demands on finite natural resources; international organizations or non-governmental organizations. The principal factors influencing legal developments include industrial and technological national rules), or an initiative proposed by one or more governments, Cadiz, Exxon Valdez and Chernobyl accidents each resulted in new intersuch as an oil pollution or nuclear accident (the Torrey Canyon, Amoco The development of international environmental law has occurred over four The emergence of principles and rules has often followed a catalysing event periods, responding to particular factors which influence legal developments

early harbinger of the more intensive activism of non-governmental organizations which marks international negotiations today. arrangements to ensure that legal obligations were complied with or enand most of the agreements adopted in this initial period did not create forced. Many initiatives grew from private activities by private citizens, an institutional arrangements were limited: until the UN was created in 1945 ments to conserve wildlife, especially fisheries, birds and seals. International efforts at international environmental regulation focused on international agree there was no international forum in which to raise environmental concerns instruments. National laws predated these international measures. Early natural resources (flora and fauna) and the adoption of appropriate legal development required limitations to be placed on the exploitation of certain nationally upon their understanding that the process of industrialization and with the creation of the new UN family of international institutions in 1945. bilateral fisheries treaties and the Pacific fur seal arbitration and concluded This period might be characterized as one in which states first acted inter-To 1945 The first distinct period began with nineteenth-century

precedents which are still relied upon today. In 1872 Switzerland proposed at international regulatory commission for the protection of birds, which led to The agreements which were adopted nevertheless established a pattern of

> natural resources could not proceed unchecked, that industrialization and international rules reflected a growing awareness that the exploitation of wildlife generally.8 These introductory, but rather vague and unenforceable, Americas became the home of the second regional arrangement to conserve the first (bilateral) agreement to protect migratory birds,7 and in 1940 the first treaty was adopted to prevent pollution of freshwaters.6 1916 heralded wildlife conservation agreement, in Europe's African colonies.5 In 1909 the the first multilateral birds' convention in 1902.4 1900 saw the first multilateral technological developments brought with them pollution and associated prob-World War the emerging consciousness was summarized thus: lems, and that international measures were needed. Shortly before the Second

regarded as an expanding world, that we reject in our contemporary theories of ever fresh spaces of the world to be filled with people, of ever new discoveries of We have accustomed ourselves to think of ever expanding productive capacity, of permanent impoverishment of the world.9 modern expansion has been effected in large measure at the cost of an actual and economics and of population the realities which contradict such views. Yet our indefinitely to solve problems of supply. We have lived so long in what we have kinds and sources of raw materials, of continuous technical progress operating

arrangements to provide a more coherent basis for global action. It was the creation of the UN in 1945 that began to put in place institutional

cluded oil pollution, nuclear testing, wetlands, the marine environment and conservation of general and particular environmental resources. These intions with competence in environmental matters were created, and legal its living resources, the quality of freshwaters and the dumping of waste at instruments were adopted to address particular sources of pollution and the Environment. Over nearly three decades a range of international organizaperiod, which culminated with the 1972 UN Conference on the Human The creation of the UN: 1945-72 The UN introduced a second

echnical progress, and introduced a period characterized by two features: and still does not, address environmental protection or the conservation of development and environmental protection. However the UN Charter did not degradation. The connection was made on the relationship between economic those issues began to address the causes of pollution and environmental international organizations became involved with environmental issues, and and Cultural Organization (UNESCO) and the General Agreement on Tariffs Agriculture Organization (FAO), the United Nations Educational, Scientific natural resources. Other members of the UN family, including the Food and The UN provided a forum for the discussion of the consequences of all this

on the need to develop an appropriate standard to ensure conservation in sources by applied technology; education for conservation; the position of tion and development, but no recommendations or action plan were adopted. Discussions also focused on the relationship between conservation and use, their interdependence, use and conservation); the development of new remain topics addressed included world resources and shortages (including human effort to meet human need, and on the relationship between conservaless-developed countries; and the integrated development of river basins.10 minerals, fuels and energy, water, forests, land, and wildlife and fish. The Stockholm Conference and the 1992 UNCED, addressed six main issues; tion and Utilization of Resources. The Conference, which presaged the 1972 1949 the UN convened its first environmental conference, on the Conservaand Trade (GATT), were granted a limited mandate over these matters. In

also saw the adoption of the first global conventions on oil pollution prevencase calling on France to stop all atmospheric nuclear tests.15 These years Australia and New Zealand to bring to the International Court of Justice a Other global agreements addressed high seas fishing and conservation and tion,16 high seas intervention for clean-up,17 and liability and compensation.18 resolutions on atomic energy and the effects of radiation, 13 which led to the Assembly convened a major Conference on the Conservation of the Living the protection of wetlands. petence over environmental and natural resource issues. In 1954 the General 1963 Nuclear Test Ban Treaty14 and, ultimately, the political context for 1958 Geneva Conventions. 12 The following year it adopted the first of many Resources of the Sea,11 which led to the conservation rules adopted in the The Conference was significant also because it recognized the UN's com-

regard to the best interests of the people"19 land, shortly before the Stockholm explosions or the disposal of radioactive waste; the EC's first act of environhazardous substances at sea. and faunal resources in accordance with scientific principles and with due aimed at the 'conservation, utilization and development of soil, water, flora mental legislation, in 1967; the 1968 African Nature Convention, which Conference, the first treaty to prohibit the dumping of a wide range of limiting parties to peaceful activities in that region and prohibiting nuclear Noteworthy regional developments included the 1959 Antarctic Treaty

coordinating international environmental policy and law, and few had a and institutional developments were, however, adopted in a piecemeal fashion, and no international organization had overall responsibility tor were beginning to address international environmental issues. These treaty tal obligations at the regional and global levels, and international organizations specific environmental mandate. By 1972 there existed an emerging body of rules establishing environmen-

> mental issues, and new techniques of regulation were employed growing range of environmental issues onto a more coordinated and coherent holm Conference and concluded with UNCED. During this period the UN footing. A raft of regional and global conventions addressed new environattempted to put in place a system for putting the task of addressing a 1.6.3 Stockholm and beyond The third period ran from the 1972 Stock-

sented the international community's first effort at developing a coherent non-binding instruments: a resolution on institutional and financial arrangeprotect the environment. According to one commentator strategy for the development of international policy, law and institutions to 109 recommendations for more specific international action.21 These reprements; a declaration of 26 guiding principles; and an action plan setting forth The 1972 Conference, convened by the General Assembly, 20 adopted three

limited by inadequate perception of environmental issues and by restrictive con-Stockholm enlarged and facilitated means toward international action previously national organizational relationships.22 approach to international responsibility, and (4) the conceptualization of inter-(1) the redefinition of international issues, (2) the rationale for cooperation, (3) the cepts of national sovereignty ... There were significant elements of innovation in

ozone depletion, trade in hazardous waste and biodiversity. community; and the adoption of a set of general principles to guide such ing some 30 regional treaties, as well as important global treaties addressing the establishment and implementation of its Regional Seas Programme, includaction, including Principle 21. UNEP has subsequently been responsible for definition of a framework for future actions to be taken by the international establishment of coordinating mechanisms among existing institutions; the be the creation of the United Nations Environment Programme (UNEP); the gered species. For international law the significant developments proved to pollution, transboundary air and water pollution, and protection of endanleading to Stockholm were reinforced, particularly in relation to marine Although the infusion of new international law was not dramatic, the trends

establishment of global rules for the protection of the marine environment (UNCLOS). This establishes a unique, comprehensive framework for the ⁰gy transfer and liability.²⁷ Its provisions have provided an influential basis arrangements and provisions on environmental impact assessment, technoland marine living resources, including detailed and important institutional ume, may be the 1982 United Nations Convention on the Law of the Sea protection of world cultural heritage.26 The most important agreement, over wastes at sea;25 pollution from ships;26 trade in endangered species;25 and the pices. These addressed, for the first time on global scale, the dumping of Stockholm catalysed other global treaties adopted under the UN's aus-

for text subsequently adopted, even prior to its entry into force in November

transboundary air pollution. 30 species;28 the protection of habitats (as opposed to species);29 land in a more coherent and comprehensive fashion, the protection of migratory Environment Committee at the OECD. New regional agreements addressed including environmental protection rules in the EC, and the creation of an Stockholm was also followed by other important regional developments

for environmental impact assessment;35 the transboundary impacts of indusever extending range of subjects, applying new techniques and approaches national Trade. In the run-up to UNCED treaties were adopted to address an reactivate its long-dormant Group on Environmental Measures and Interwhich benefited the global commons. Later that year the GATT decided to agreement, and in 1991 the World Bank, UNEP and UNDP established the obligations in that organization's fundamental objectives.31 In 1990 the parassessment requirements in most multilateral development banks. The 1990 ronmental measures which might affect international trade. In the face of mental Measures and International Trade (although it did not meet until environmental issues. In 1971 the GATT established a Group on Environ Assembly prohibited the use of driftnets. constitute threats to international peace and security, and the UN General Significantly the UN Security Council declared that ecological issues could trial accidents;33 and the protection and use of international watercourses Global Environmental Facility to provide financial resources to support projects countries meet certain incremental costs associated with implementing that ties to the Ozone Convention created a Multilateral Fund to help developing and Development reflect changing times and values, including environmental Articles of Agreement establishing the European Bank for Reconstruction Department in the World Bank and the adoption of environmental impact loan-making processes. This led to the establishment of an Environment development sought to integrate environmental considerations into their increased public and governmental pressure, the World Bank and regional 1991), and that organization began to be faced with countries adopting envi-Also in this period economic and financial institutions began to address

on Environment and Development which produced the Brundtland Report efforts resulted in comprehensive efforts which influenced binding legal deenced new international laws: the 1978 UNEP Draft Principles on Shared ('Our common future') and the accompanying Legal Principles and Reconvelopments. Particularly noteworthy was the work of the World Commission Legal Experts, and the 1982 World Charter for Nature. Non-governmental Natural Resources, the 1981 Montevideo Programme of the UNEP Group of 'Soft law' instruments also proliferated, and three have particularly influ-

> pared by an Experts Group on Environmental Law. Collaboration between mendations on Environmental Protection and Sustainable Development preits 1991 follow-up, 'Caring for the earth: a strategy for sustainable living'.24 JUCN, UNEP and WWF produced the 1980 World Conservation Strategy and

should meet some of the costs of implementing obligations, and it had been countries had succeeded in establishing the principle that financial resources ters, especially trade and development lending. Perhaps most significantly, as standards, and environmental issues were intersecting with economic matconsiderations issues into their activities. In spite of these relatively impresinstitutions addressed regional and global environmental issues, and old instiaccepted that not all countries should be bound by the same standards. New part of the global bargain in the move towards global instruments, developing standards were in place, a range of techniques sought to implement those right to allow or carry out activities which harmed the environment. New national environmental law. States were increasingly subject to limits on the Assembly resolution 44/228, there existed a solid body of rules of intersive achievements, environmental matters remained a peripheral matter for tutions were reforming themselves to begin to integrate environmental the international community. By 1990, when preparations for UNCED formally began with General

Assembly had endorsed the Brundtland Report,35 and the following year environmental degradation in the context of strengthened national and interwas to elaborate strategies and measures to halt and reverse the effects of dozen international organizations and several thousand NGOs converged on 44/228, and after four preparatory negotiating sessions 176 states, several was formally proposed in December 1989 by General Assembly Resolution called for a global conference on environment and development.36 UNCED taken account of by all relevant activities. In December 1987 the UN General integration, requiring environmental concerns to be integrated into and fully 1.6.4 UNCED and beyond UNCED launched a fourth period for the sensus on the Management, Conservation and Sustainable Development of Declaration on Environment and Development (the Rio Declaration),37 a in all countries. UNCED adopted three non-binding instruments: the Rio national efforts to promote sustainable and environmentally sound development Rio de Janeiro for two weeks in June 1992. The purpose of the conference Diversity,39 and the United Nations Framework Convention on Climate were also opened for signature at UNCED: the Convention on Biological All Types of Forest (the Forest Principles); and Agenda 21,38 Two treaties Non-legally Binding Authoritative Statement of Principles for a Global Con-'greening' of international law, which might be characterized as the period of Change 40

laws, but whether they will support or undermine efforts to protect the envidevelopment of international law. Certainly it will lead to more international ronment remains to be seen. It is still too early to fully judge UNCED's contribution to the progressive

entry into force of the Climate Change and Biodiversity Conventions sugupdated and modernized in the light of UNCED's new principles. The early sustainable development of small island states; the establishment of the Comvention on drought and descrification; the convening of a conference on the giving effect to UNCED recommendations, including negotiations for a congested that such political will as existed at UNCED to adopt the instruments prevention of industrial disasters, and many existing agreements are being likely on nuclear safety and liability, desertification and drought, and the generation' marine pollution agreements, 42 and introduced new rules on liability highly migratory fish stocks, 41 Post-UNCED agreements updated earlier 'first mission on Sustainable Development; and a conference on straddling and lawmaking. The UN General Assembly adopted five follow-up resolutions had been carried forward into the next phase. for oil pollution and for environmental damage generally. 43 New treaties are Nevertheless UNCED heralded a new stage of international environmenta

Making international environmental law

environmental policy and law is developed, under what circumstances and in ing the nature of the existing regime. This section examines how international what fora it is conceived. How international law is made or brought about is important to understand-

Creating treaties

down rules for treaties concluded after 1980 on such matters as entry into be developed, but the 1969 Vienna Convention on the Law of Treaties lays ronmental law. There are no rules prescribing their form or how they should As noted before treaties are the most important source of international envipacts or acts, but there is no legal significance associated with these different variety of different descriptions, such as conventions, protocols, covenants force, reservations, interpretation, termination and invalidity. Treaties go by a

of an independent single purpose organization, often called an Intergovernby informal negotiations, where the parameters are determined and the premental Negotiating Committee (INC). Formal negotiations are often preceded dardized process. Often the need for a treaty is initially promoted by an framework of an existing international organization or with the establishment international organization or a NGO. Negotiation formally begins within the Negotiation of treaties has recently been following an increasingly stan-

> example, the negotiations for UNCLOS began in the 1960s, formally comnational organization such as UNEP. Negotiations can take many years, for discussions and the formal negotiations most often comes from an inter-Madrid Protocol to the Antarctic Treaty and the CBD). to allow substantial input from the NGO community, with some cases a NGO process, negotiators are normally separated into several working groups which menced in 1973 and were not concluded until 1982. In order to accelerate the liminary positions of states are investigated. The initiative for these informal draft being used as the basic negotiating text for the INC (that is the 199) address separate issues simultaneously. Recent negotiations have also tended

which outline how adoption is to take place. consent to the draft text. Each negotiation adopts its own rules of procedure treaties in some areas is for a two-thirds' majority of negotiating states to treaty is not, however, always required. Indeed the custom for international treaty by the representatives of the relevant states. Unanimity in adoption of a The negotiation of a treaty is concluded by the adoption of the text of the

which undermines its objects and purposes. have adopted a treaty are expected, pending their consent, not to do anything binding only between those states which have consented, though states which states having certain characteristics. In such cases, however, the treaty is into force when it has been consented to by a specified number of states or altered by agreement and it is now more usual to find that the treaty enters into force until all the negotiating states expressed their consent. This may be impose limited obligations on the parties. Traditionally a treaty did not come legally binding until a treaty has 'entered into force', although adoption does The full obligations or commitments in a treaty, however, do not become

after it has entered into force. Accession is, however, only possible if it is expressing consent. The signature is that of the delegation negotiating the treaty itself. 'Signature' and 'ratification' are the most frequent means of Provided for in the treaty or by agreement of all the parties to the treaty. accession. Accession is the term used to refer to countries who join the treaty Another common way that a state can become a party to a treaty is by treaty and is sometimes the act of adoption as well. Ratification refers to the becoming a party to a particular treaty always being outlined in the text of the non to undertake to be legally bound by a treaty (that is Act of Parliament). legislative and executive measures that a country is required by its constitu-Consent may be expressed a number of ways, with the permitted ways of

or guiding principles. The frequently cited prototypes are UNEP's Regional Seas Treaties and the 1985 Vienna Convention. The original text of the 1976 are no more than a 'framework', laying down only very general requirements being acted upon without further clarification or elaboration; more often they freaties do not necessarily lay down clear or detailed rules capable of

oil spills, dumping of wastes, protection of the marine environment from obligations through its accompanying protocols on cooperation in combating have subsequently been developed into much more specific and binding legal normative content of the convention. envisage further protocols on a wide range of matters in order to develop the the treaties signed at UNCED are based upon the framework approach and truth nearly all modern treaties are framework treaties. For example both of land-based sources of pollution, and protection of specially sensitive areas. In Regional Sea Treaty, contained only the vaguest of guiding principles. These Barcelona Convention on the Protection of the Mediterranean Sea, the first

experimentation on genetically modified organisms. biotechnology; new and additional financial support; and safety of release or cated species; access to genetic resources and technology, including examined issues such as in situ and ex situ conservation of wild and domestisufficient progress had been made, including the completion of studies on prepare terms of reference on biotechnology transfer. Other working groups For example the Sub-Working Group on Biotechnology was established to various aspects of the issues, for several working groups to be established in November 1988, the initial sessions were referred to as meetings of the which called upon UNEP to set up a series of expert group meetings. Started formally in 1987 with UNEP Governing Council Decisions 14/26 and 15/34, were typical of modern treaty development. Negotiations for the CBD began 2.1.1 Biodiversity convention The multilateral negotiations for the CBD 'Ad Hoc Working Group of Experts on Biological Diversity'. By mid-1990

sity'. The legal and technical experts considered the reports of the various the required number of ratifications for the Convention to enter into force September 1993, the Secretariat received the thirtieth ratification, which was of the final text of the treaty in Nairobi, Kenya on 22 May 1992. On 29 the INC were held in the intervening two years, culminating in the adoption considered in February 1991, by an 'Intergovernmental Negotiating Commitprepared the first formal draft Convention on Biological Diversity, which was of Legal and Technical Experts' in mid-1990 to prepare a 'new international Working Group of Legal and Technical Experts. Four subsequent sessions of tee'. The first INC meeting was also known as the third session of the Ad Hot working groups in drafting the convention. The Executive Director of UNEP legal instrument for the conservation and sustainable use of biological diverand the Convention entered into force three months later. The Governing Council of UNEP then created an 'Ad Hoc Working Group

2.2 Institutions

After treaties the most important source of new international environmental officially recognized at UNCED. Agenda 21 for instance not only devoted an event, they often eventually evolve into hard law. The important role that evidence that they have considerable influence on state practice and, in any instruments, their role is important from a legal viewpoint as there is growing often referred to as 'soft' law. Despite the voluntary nature of many of these often initiate multilateral negotiations for new treaties, they also produce its obligations. establishment of the CSD to ensure that the UN and its agencies implement entire chapter to the role of international organizations but also called for the international organizations play in the development of policy and law was tary and non-binding in strictly legal terms. These types of instrument are policy, guidelines, codes of practice and resolutions which are largely volunpolicies and rules are the acts of international organizations. Not only do they

or complete but a precautionary attitude is required, or because the ecosuch as international environmental law. Soft law's advantage over hard contribution to make in establishing a new legal order in a dynamic field nomic costs are uncertain or overburdensome. Such an approach does enable mental matters this may be either because scientific evidence is not conclusive do not want to completely shackle their freedom of action. With environapproach allows states to tackle a problem collectively at a time when they law, and hence its importance, arises from its flexibility. The soft law national community. not be acceptable in a binding treaty. This flexibility is vital in securing the these are expressed in vaguer terms, or conversely, in soft law form enable states to assume obligations that they would not otherwise assume, because necessary compromises to develop policy and law in today's diverse interformulation of obligations in a precise and restrictive manner that would Although soft law is elusive and hard to define, it has an important

compromises necessary to develop policy and law in a world consisting of often prepare the initial drafts of negotiating texts, drawing up preliminary advice or secretarial services. For instance international organizations will regard is through the provision of support services such as legal and scientific different states with divergent interests and values. Their influence in this tion of further rules and policy occurs. They thus facilitate and shape the indirectly as a consequence of providing a permanent forum where negotiamake a valuable contribution as part of the lawmaking process although they negotiations but have a substantive input into negotiations. In this sense they agendas and commenting on proposals, and in this way they not only aid are not themselves technically involved in the process. The availability of International organizations also develop international environmental policy

and should not be underestimated. their administrative machinery is an important part of the lawmaking process

bound by them. and oil pollution discharges are accepted and implemented by countries not dynamic character and allow the parties to respond to new problems or treaty under which they are conducted. Not only does this give the treaties a entails the negotiation and elaboration of detailed rules, standards, or practhey were promulgated. For example the standards set by the IMO in safety can have a legal significance beyond the immediate convention under which priorities, it is also a form of lawmaking. In some instances, this rule-making tices, usually as a means of giving effect to the more general provisions of the tion of further measures and regulations. Supervision of this kind also often acting as a forum for reviewing the performance of states or for the negotia mentation by states, facilitating independent monitoring and inspection and those of collecting information and data, receiving reports on treaty imple enforcement measures. The key tasks that they perform in this context are This is done more by reminder and comment than through active or binding and prompting implementation of their codes and sometimes conventions Most international organizations are involved in supervising, monitoring

of making the tough decisions necessary for efficiently utilizing common power and control international organizations may be given in the future. of the International Seabed Authority is uncertain, they indicate the type of tic Mineral Resources Commission never came into existence and the future property or arresting the 'tragedy of the commons'. Even though the Antarcunanimity. As experience with the international fishery commissions has and lawmaking. Both the Antarctic Mineral Resources Commission and the illustrated, the latter type of voluntary agreement has proven to be incapable binding decisions based upon a majority decision as opposed to relying upon the resources under their control. Crucially they both had the power to make International Seabed Authority were delegated considerable power to manage Recent developments foresee an even greater role in policy development

national law, can be developed and manifest itself they provide a forum in which state practice, the basis of customary intermechanisms which create rules and develop the law through clarification by 'judicial' interpretation of many of the vague rules of a convention. Finally, As we shall see international organizations also act as dispute resolution

ment of international environmental law in 1975 when it stated that its the results of the UNCHE, UNEP first spelt out its objectives for the developtive international organizations for developing international environmental 2.2.1 UN environmental programme One of the more important and law over the last two decades has been UNEP. Created in 1972 to implement

> ronmental concerns based on the Stockholm Declaration; to facilitate new body of international law to meet new requirements generated by enviintentions were: to contribute towards the development and codification of a the aim of devising efficient new mechanisms or improving old ones. disputes; and to study institutional structures related to the environment with international commons and their regulation from an environmental viewcooperation in developing the law on state responsibility in accordance with point; to establish guidelines and procedures for avoidance and settlement of international law at national and regional levels; to promote protection of the the principles of the Stockholm Declaration; to contribute to development of

considerable body of documentation and a number of treaties. These include: ministration. Under each one of these headings, UNEP has developed a and (3) provision of international assistance for national legislation and adments; (2) development of international principles, guidelines and standards; grouped loosely into three categories: (1) conclusion of international agree-Law, better known as the 'Montevideo Programme'. The Programme can be the Programme for the Development and Periodic Review of Environmental been produced including: the 1978 Principle of Conduct in the Field of the Convention and the 1989 Basle Convention. Various guidelines have also the Regional Seas Treaties, the 1979 Bonn Convention, the 1985 Vienna mental legislation for both developed and developing countries ciples for the Environmentally Sound Management of Hazardous Waste; and Montreal Guidelines for the Protection of the Marine Environment Against Utilization of Natural Resources Shared by Two or More States; the 1985 Environment for the Guidance of States in the Conservation and Harmonious has also provided considerable assistance in the drafting of national environthe 1987 Goals and Principles of Environmental Impact Assessment. UNEP Pollution from Land-based Sources; the 1987 Cairo Guidelines and Prin-Central to their efforts to develop international environmental law has been

of this hardening include the development of over 40 separate protocols these instruments have developed into binding regimes. Notable examples weak and many are replete with ambiguities and contradictions, some of ronmentally Sound Management of Hazardous Waste into the 1989 Basle and the transformation of the Cairo Guidelines and Principles for the Enviseveral accompanying protocols, most notably the 1987 Montreal Protocol has been developed into one of the leading environmental treaties through under the Regional Seas Programme; the 1985 Vienna Convention which Even though the normative content of the UNEP instruments tends to be

effectively and despite the fact that it is not possible to judge whether they would have come about in the absence of UNEP, UNEP has undoubtedly Although many of UNEP's initiatives have not so far been implemented

tive content. played an important role in their development and influenced their substan-

Conference of the parties

quently, are the formal source of much international environmental policy Essentially COPs act as the legislative arm of a convention and, consethe subsidiary bodies and executive bodies of other relevant conventions ing subsidiary bodies as deemed necessary; and coordinating the secretariat adopting amendments to the convention, its annexes and protocols; establish reports submitted by any subsidiary body; considering and, if necessary mittals required by the convention; considering such information as well as convention; establishing the form and the intervals for the information transbodies normally include: keeping under review the implementation of the regular intervals, typically every two years. The powers delegated to these and adaptability within a convention. In a modern treaty COPs are held at are developed into meaningful commitments. They also provide for flexibility principal forum where the often general obligations found in many treaties are known as the Conference of the Parties or the COP. The COPs are the consider how the purposes of the treaty are being met. Often these meetings All effective treatics provide a mechanisms whereby the parties can meet and

and a further 586 members of the press. there were over 1000 registered participants representing some 140 NGOs decision-making process. For example, at the Eighth COP to CITES in 1992 range of interests and allow considerable public involvement in their currently, most important COPs attract considerable attention from a wide ment delegations, excluding the public and receiving very little media attention. Whereas early COPs were rather private affairs, involving only govern-

cally illustrated by the absence of an effective COP, such as with the 1968 African Convention, Without a proper COP mechanism it has achieved very little in its 25-year history. The importance of the role performed by the COP is perhaps most graphi-

institutional structure the Treaty has been almost entirely managed by the commitments and developed no institutional structure for its implementation biennial meetings of its 'COP', the ATCMs. The purpose of these meetings (that is no convention 'secretariat' was established). In the absence of any The 1959 Antarctica Treaty as originally adopted contained few concrete tem and its COP, the Antarctic Treaty Consultative Party Meetings (ATCMs). COP decisions are illustrated by the experience of the Antarctic Treaty Sys-COP in developing policy and law and the politics involved in arriving at 2.3.1 The Antarctica Treaty The important role of a properly functioning

> and recommending to their Governments, measures in furtherance of the common interest pertaining to Antarctica, and formulating and considering, principles and objectives of the Treaty, including measures regarding: outlined in Article IX is 'to exchange information, consult on matters of

- use of Antarctica for peaceful purposes only;
- ଡ୍ଟ facilitation of scientific research in Antarctica;
- facilitation of international scientific co-operation in Antarctica
- facilitation of the exercise of the rights of inspection provided for in Article VII of the Treaty;
- questions relating to the exercise of jurisdiction in Antarctica.
- preservation and conservation of living resources in Antarctica

commonly used instruments are the ATCM Recommendations which are occurred in 1960. Although they used to occur every two years, since 1991 are called from time to time to consider special issues; the most recent of change of information. In addition to these regular meetings, special meetings meteorology, telecommunications, transport and logistics, tourism and exmade on a wide variety of subjects including; environmental protection made consensual basis. To date there have been over 200 Recommendations Recommendations, protocols to the Treaty or separate conventions. The most through a variety of legal instruments which include ATCM or SATCM ATCM held in Seoul in May 1995. The terms of the Treaty are developed they have been held on an annual basis. The most recent was the XIXth tive Parties and usually last for about two weeks. The first such meeting the Protocol on Comprehensive Environmental Protection for Antarctica. these special ATCMs (SATCM) occurred in April 1991 in Madrid to finalize ATCMs occur at a conference hosted and organized by one of the Consulta-

provide comprehensive protection for the environment in Antarctica. general obligation an elaborate management regime has been developed Article X(f) is a paradigm of policy and rule-making by a COP. From this through additional recommendations, protocols and further conventions to The extent to which the ATCM has developed a detailed and elaborated

governing the conduct of scientists working in the area, which had been second ATCM (Recommendation II-II) and were developed into the Agreed developed by the Scientific Committee on Antarctic Research (SCAR), were Measures For The Conservation Of Antarctic Fauna And Flora (Recommenissued to all Antarctic expeditions. These ideas were further discussed at the The development of Article X(f) began at the very first ATCM where rules

mechanism through which new regulations have been developed to control them. For instance when Norway expressed renewed interest in commercial As further threats to Antarctica became known, the ATCM has been the

establishing a regime of protection for six species of Antarctic seals mosing Interim Guidelines for the Voluntary Regulations of Antarctic Pelagic national governments should regulate pelagic sealing on a voluntary basis. At exploitation of seals in 1964, it was suggested at the IIIrd ATCM in 1964 that threatened by scaling. ties adopted the Convention for the Conservation of Antarctic Seals, Sealing (Recommendation IV-XXI). Finally, in 1972, the Consultative Parthe next ATCM a further step was taken with the Consultative Parties adopt-

and the marine ecosystem as a whole. equal consideration has to be given to the likely effects on non-target species upon maximum sustainable yields of the target species only, under CCAMLR where the warmer waters flowing south meet the Antarctic water). It also natural biological frontier of the Antarctic marine ecosystem (which occurs the jurisdictional boundaries of the Convention being determined by political as opposed to a political one. This ecosystem approach meant that, instead of meant that unlike most other fishery agreements, which set quotas based parameters, it was defined by reference to the 'Antarctic Convergence', the in that it contained a management regime based upon an ecological approach sultations the Convention on the Conservation of Antarctic Marine Living the IXth ATCM at London in 1977. After seven separate meetings and concontrol and manage the marine resource. Negotiations were commenced at once again provided the framework within which a regime was developed to Resources (CCAMLR) was adopted. CCAMLR was an innovative document ity of harvesting krill on a commercial scale in the late 1960s, the ATCM Similarly, when both Japan and the USSR began investigating the possibil-

authority given to the Commission to manage Antarctica, mentioned before. activity in question would not cause damage to the Antarctic environment ated a regime proscribing all mineral resource activity unless and until the of Antarctic Mineral Resource Activities was adopted. The Convention creand the negotiations for an Antarctic Minerals Convention were commenced dent on the 'timely conclusion of a convention on mineral resources activity') established a moratorium on mineral resource activity in Antarctica (depenresources of Antarctica in 1977 at the IXth ATCM, Recommendation (IX-3) before at international level. Its most radical aspect was the amount of Like CCAMLR, CRAMRA contained many innovative techniques never seen person who proposed such an activity proved, by extensive studies, that the By 1988 negotiations were completed and the Convention on the Regulation began negotiations for a treaty to regulate the development of the mineral When the possibility of mineral exploitation arose, the Consultative Parties

rights in Antarctica. They argued that as the world's last pristine terrestrial ests as a result of the legal certainty which CRAMRA brought to mining Many environmentalists felt that CRAMRA would stimulate mining inter-

> SATCM to consider the various proposals submitted by the Consultative Parties to declare Antarctica a world park. finally sealed by Recommendation (XV-7 and XV-8) which established a CRAMRA and environmental issues in general. The fate of CRAMRA was lobbying, the following ATCM, the XVth, was dominated by the fate of tica should be preserved as a world park. As a result of intense political environment, commercial exploitation of Antarctica was unthinkable: Antarc-

enced by NGOs with many of the government delegations containing NGO protection regime. The form and content of the Protocol were heavily influyear, negotiated a protocol to the Treaty which developed the disparate elements of the Antarctic Treaty System into a comprehensive environmental The SATCM established at the XVth ATCM, over the course of a single

acceptable speed and within an acceptable for afor all the Consultative Parconference of the parties in developing the necessary policy and rules at an the Antarctic Treaty System to meet the changing demands of its constitu-Treaty System has shown remarkable flexibility and adaptability in allowing success of the system is, however, due in part to the fact that the Antarctic of an international resource. The reasons for this are many and varied. The possibly one of the only examples of the successful international regulation example of international regulation of an international resource, and it is region. The comprehensiveness of this legal regime is probably the best comprehensive regulations governing every aspect of man's activities in the ties: a success all the more remarkable given the absence of a secretariat for ents. This dynamism has been due to the effectiveness of the Treaty's for the protection of flora and fauna in Antarctica but has developed similarly The ATCM mechanism has not only developed a comprehensive regime

opments outside the ambit of Antarctica, The ecosystem approach first seen principles of one treaty but it also has had a wider impact on the body of law only developed international law and policy by fleshing out the guiding also in the Biodiversity Convention. In this sense the ATCM has therefore not in CCAMLR has been adopted in the 1985 ASEAN Convention and is seen The legal techniques developed by the ATCM have also influenced devel-

also an important source of accountability. In addition the manner in which over recent years, becoming not only important sources of law and policy but NGOs and scientific bodies can have in their development. these rules and policy have been made illustrates the important role that The rise and fall of CRAMRA also illustrates how COPs have changed

Standing committees

may have a wider effect in that it will be used as a precedent to help clarify implementation of the Protocol. Furthermore the work of this Committee consisting of a restricted number of parties which will meet between the COP beginning to emerge is the delegation of matters to a standing committee sented to the plenary of the COP for formal approval. Another method established to deal simultaneously with matters on the agenda. Only after similar obligations in other contexts. important example of a standing committee, with the authority to consider sessions. The Implementation Committee of the Montreal Protocol is an agreement has been reached in the working group will the matter be preess of the COPs. For example at most COPs several working groups are Increasingly modern conventions are streamlining the decision-making proc-

probably be innovative and, therefore, provide an important source of premaking, this will mean that the policy developed by the Committee will and the CCC. Furthermore without the requirement of unanimity in decision tant consequences for the other conventions using this term such as the CBD interpretation of the meaning of 'incremental costs' has not only developed and administrative arrangements for the purpose of achieving the objects of develop and monitor the implementation of specific operational guidelines member represents a constituency of parties to the Protocol. Importantly cedents for other fora. the meaning of Article 10 of the Montreal Protocol, but also has had imporits work will be primarily about financial matters and project approval, its the Multilateral Fund under Article 10 of the Montreal Protocol. Even though per cent of the contributions of donors. The Committee is empowered to passed by members representing a majority of constituents and more than 50 decisions are made on the basis of a double majority, whereby it must be developing countries and seven from developed counties). Each Committee committee of elected members of the parties, known as the Executive Committee. In this case the Committee is made up of 14 members (seven from The Multilateral Fund under the Montreal Protocol is also managed by a

not notify the ICAO of their intention not to accept them. The authority of the become mandatory, without the need for ratification, for those states which do dards are adopted in the ICAO by a two-thirds' majority. Once adopted they made up of 33 elected representatives of the parties to the Convention. Stan-Council of the International Civil Aviation Organization (ICAO), The ICAO is standards on aircraft noise and engine emissions have been developed by the thing to an international legislature that exists today. ICAO is unparalleled in the environmental sphere and is probably the closest national Civil Aviation. Under Articles 37 and 54 of the Convention, international This technique is most developed in the 1944 Chicago Convention on Inter-

2.5 Secretariat

only more focused. tariat in developing law is similar to that of an international organization, convention then the secretariat is its executive. The influence of the secreand application of policy. If the COP can be likened to the legislative arm of a new rules and policy, the secretariat can also contribute to the development Although the COP is the repository of most of the formal authority to develop

of other conventions. necessary coordination with the international organizations or the secretariats ports on its activities and presenting this to the COP; and ensuring the the information required by the provisions of the convention; preparing reto it; helping the parties, particularly developing country parties, to compile support for these conferences; compiling and transmitting reports submitted ments for sessions of the COP and its subsidiary bodies and providing the Secretariat functions normally include such matters as: making arrange-

delegated power to enact legislation. meetings of the COP, establish agendas, and, in some instances, can be influence on the activities of the COP in that they coordinate and organize the forum through which exchange can occur. They also have an important As with international organizations secretariats provide continuity and a

standards of the Codes Alimentarius Commission. World Meteorological Organization or the development of international food development of standard meteorological practices and procedures by the of international health regulations by the World Health Organization, the be listed. Other examples of similar powers can be found in the development guidelines that set out the precise features that a site must possess in order to be of 'outstanding natural beauty' for it to be a World Heritage Site, it is the obligations. For instance, although the Convention provides that an area must lines which develop the general commitments of the Convention into specific Secretariat of the Convention, is authorized to pronounce Operational Guide-Heritage Convention. Under this Convention the World Heritage Centre, the An important example of lawmaking by a secretariat is found in the World

2.6 Scientific/technical panels

engines for the development of policy. Although they come in many different sists not only of a secretariat but also contains scientific and technical panels. may have one or more subsidiary bodies. Ostensibly they are politically to help the convention itself (that is the IPCC for the CCC), A convention tion such as UNEP, the FAO or the IMO or an independent body established guises, they are often either a permanent technical committee of an organizaoften referred to as the 'subsidiary bodies'. These subsidiary bodies are the The administrative structure of many modern environmental conventions con-

evant scientific research; and responding to scientific, technological and development and/or transferring such technologies; providing advice on relof the convention; identifying innovative, efficient and state-of-the-art techviding assessments of the relevant state of scientific knowledge; preparing representatives competent in the relevant field of expertise. The work that regular intervals or are in permanent session. They are normally open to mentation; legal; and financial matters. Ultimately they are established to methodological questions that the COP may pose. nologies and know-how and advice on the ways and means of promoting scientific assessments on the effects of measures taken in the implementation they carry out is vital for effectiveness of a convention. In effect they provide participation by all parties. Typically they are constituted of government develop recommendations for the secretariat or the COP. They either meet at is to provide advice on a range of aspects; technical; scientific; policy; impleindependent although this is rarely the case in practice. Their main function the intellectual input to the secretariat. Typical responsibilities include: pro-

contribution to the development of policy and law agement and legislative needs, indicating whether species or pollutants should come to conclusions and make recommendations, drawing attention to manmanagerial or lawmaking one. Though they have no regulatory role, they do be added to regulatory annexes. In this indirect way they make a significant These bodies have a research, advisory and coordinating role rather than a

attain a national presence. groups need to be able to bring relevant professional knowledge to their consultative party countries through national committees. Through these, and and priorities are discussed. Much of the detailed scientific coordination is with a small secretariat, and holds regular meetings at which overall activities examples of such a panel is found in the work of SCAR within the ATS deliberations and should not be appointed on political grounds or merely to Antarctica, national scientific expertise is harnessed. Members of its working by direct relations with the agencies managing national scientific activities in ing everything from biology to solid earth geophysics. SCAR operates in handled through its permanent working groups of which there are 11, covertemporaneously and in parallel with the Antarctic Treaty, SCAR operates coordination of scientific activity in Antarctica. SCAR was established con-SCAR is a scientific committee charged with the initiation, promotion and 2.6.1 SCAR and the Antarctic Treaty System One of the longest standing

rules for the conservation of Antarctica. The agreed measures were initially prepared in consultation with the SCAR Working Group on Biology. Countries seeking membership of SCAR, which is usually a precursor to consultative SCAR has acted as a valuable vehicle for the development of policy and

> on the Antarctic Environment; XIV Environmental Impact Assessment. The parties must notify SCAR annually of any steps that they have taken to those taking seals (section 5). Furthermore the Convention requires that the mane methods of killing and capture, which are required to be practised by Antarctic Seals Convention invites SCAR to make recommendations on huogy and a Group of Specialists on Environmental Affairs and Conservation. Antarctic treaty was heavily influenced by SCAR's Working Group on Biolimplement the Convention during the previous year. Antarctic Environment; VIII-13 Antarctic Environment; IX-5 Man's Impact Conservation of Fauna and Flora, VIII-3 SSSIs; VIII-1 Man's Impact on the SCAR's reports have also regularly been acted upon. Examples include: I-8 mended by SCAR. The development of the 1991 Madrid Protocol to the will comply with the principles of protection of the environment recomparty status under the Treaty, are required to give an undertaking that they

2.7 NGOs and private concerns

status at international and regional organizations and COPs. They are also a to the development of international environmental policy and law. Although have to be adopted by a party before they can be submitted formally. to the COP which in some instances can be tabled directly, but in most cases source of considerable numbers of scientific and technical papers presented increasingly effective. This has largely been achieved through their observer many international environmental meetings. They make a vital contribution the effectiveness of NGOs varies greatly, as a whole they have become NGOs have proliferated in the last 20 years and are now a standard feature of

ctes and activities for the forthcoming INC. Some well-known examples of week-long conferences of the environmental NGOs to coordinate their polirium on whaling under the International Whaling Commission; the 1991 policy or legal developments directly attributable to NGOs are: the moratowere there daily coordination meetings but, prior to the COP, there were policies and actions. At the INC meetings of the CCC or the CBD, not only effective. For example at many COPs, NGOs meet daily to coordinate their listing of elephants on Appendix I of CITES. Protocol on Comprehensive Environmental Protection for Antarctica; and the Increasingly they are coordinating their activities in order to be more

devoted a chapter to the role of NGOs and called upon the states and intermaking and lawmaking. national organizations to improve access for NGOs to the processes of policy The role played by NGOs was widely recognized at UNCED. Agenda 21

most important NGOs, The World Conservation Union (IUCN), illustrates 2.7.1 The World Conservation Union (IUCN) The activities of one of the

and the 1985 ASEAN Convention. African Convention; the 1986 Apia Convention; the 1979 Bonn Convention has been involved in the elaboration or preparatory texts include: the 1968 its origin in an IUCN Resolution in 1981. Other treaties in which the IUCN IUCN Resolution in 1963, before being concluded in 1973 and the CBD had initiated the preparation of CITES and the CBD. CITES had its origins in an pated in the drafting of many conventions on nature conservation. It even the role that NGOs play in developing policy and law. The IUCN has partici-

ices of IUCN to prepare documentation for the Committee and for the execution World Heritage Convention provides that UNESCO should utilize the servcall upon the IUCN to implement its programmes and projects. Finally the which it has consultative status. It also provides that the Committee should for IUCN assistance in the deliberations of its World Heritage Committee, on was taken over by UNEP. The World Heritage Convention expressly provides numerous conventions. It provided the secretariat for the CITES, until this of its decisions. The IUCN has also played an important role in the implementation of

examined by the General Assembly of the IUCN before being transmitted to The original text was drafted by the Legal Commission of the IUCN and then posed its elaboration, first at the 1975 IUCN General Assembly in Kinshasa Nature, the initiative for which came from the President of Zaire, who proservation Strategy. It also contributed to the drafting of the World Charter for the UN where it was adopted by the General Assembly in 1982 The IUCN was the principal architect of both versions of the World Con-

Basic principles of international environmental law

concern about global and regional environmental issues is reflected in an environmental issues are now a central concern of the UN, GATT and other thus been transformed in recent years. Previously marginal, international The relationship between environmental protection and international law has negotiating positions. different instruments in different fora, making it virtually impossible for all protection of the environment. At any time negotiations are in progress for increase in the number of international agreements and acts relating to the international institutions, and to all governments. Scientific and political but the most highly resourced states to maintain effective, and consistent

tive initiatives being developed in literally dozens of different intergovernmental of this body of law on actual governmental and human behaviour. Limited organizations at the global, regional and subregional level. Coordination law remains in its formative stages. Lawmaking is decentralized, with legislaimplementation and enforcement suggests that international environmental Despite these impressive achievements there is reason to doubt the impact

> vagaries of political, economic and scientific events and findings. tends to be reactive and somewhat ad hoc in nature, often depending upon the duplicative and sometimes inconsistent. Moreover the lawmaking process between the initiatives is inadequate, leading to activities which are often

principles and standards are considered in the following sections. acceptable behaviour in relation to particular environmental resources. These rise to an emerging set of guiding principles and minimum standards of or principles of global application, the pattern of state behaviour has given Although no single international legal instrument establishes binding rules

3.1 General principles

activities, which they carry out or permit to be carried out, and in respect of applicable to all members of the international community across the range of law commitments. They are general in the sense that they are potentially treaties, binding acts of international organizations, state practice and soft emerging, specifically in relation to environmental matters, as reflected in Several general principles and rules of international law have emerged, or are the protection of all aspects of the environment

According to one view, principles and rules

we say that a particular principle is a principle of our law, is that the principle is direction, but does not necessitate a particular decision ... All that is meant, when an all-or-nothing fashion ... [A principle] states a reason that argues in one point to particular decisions about legal obligations in particular circumstances. one which officials must take into account, if it is relevant, as a consideration but they differ in the character of the direction they give. Rules are applicable in inclining in one way or another,44

or in areas beyond national jurisdiction (such as the high seas), this aspect of ties in one state are almost inevitably likely to produce effects in other states sovereign rights. In an environmentally interdependent world, where activiof the international legal community. It is tempered by the second element (sovereignty) reflects the pre-eminent position of states as primary members provide the foundation of international environmental law. The first element 21 of the Stockholm Declaration and Principle 2 of the Rio Declaration, and damage to the environment. These objectives are now reflected in Principle sovereign rights over their natural resources, and that states must not cause pursuit of two principles which pull in opposing directions: that states have Jurisdiction The rules of international environmental law have developed in damage to the environment of other state or to areas beyond national 3.1.1 Sovereignty over natural resources and the responsibility not to cause Principle 21 and Principle 2 reflect changing international legal values. In the (environmental protection), however, which places limits on the exercise of

convincing evidence".46 out within their territory or under their jurisdiction. The emergence of the national legal limitations on the right of states in respect of activities carried recognized to reflect customary international law, placing important interdice to its applications on a case-by-case basis, Principle 21 is widely jurisdiction has been accepted as an obligation by all states; without prejucause damage to the environment of other states or of areas beyond national case is of serious consequence and the injury is established by clear and or to the territory of another of the properties or persons therein, when the or permit the use of territory in such a manner as to cause injury by tumes in much cited Trail Smelter case, which stated that 'no state has the right to use rights of other states, in particular their right to integrity and inviolability in their jurisdiction has historical roots which pre-date the Stockholm Conference responsibility of states not to cause environmental damage in areas outside form presented by Principle 21 and Principle 2, the responsibility not to peace and war', 45 and the principle endorsed by the Arbitral Tribunal in the These relate to the obligation of all states 'to protect within the territory the

More probably the significance of Principle 21 and Principle 2 lies in its prohibited (any damage, or just damage which is serious or significant)? mental damage? What is the extent of environmental damage which is the need to address other questions which need to be asked. What is environin support of a claim they might assert. Principle 21 and Principle 2 indicate reflection of a broad acceptance of the need to accept and adopt limits, and it In practice few international claims have been brought alleging violations. ation)? What is the extent of any liability (including measure of damages)? fault)? What are the consequences of a violation (including appropriate repar-What is the standard of care applicable to the obligation (absolute, strict or law is not the critical issue however, and actually does not get anyone very far has served as a basis for the adoption of many international agreements Saying that Principle 21 and Principle 2 reflect customary international

sovereignty, whereas the preventive principle seeks to minimize environmentwo ways. First, the latter arise from application of respect for principle of obligation to ensure that damage to certain environmental media does not other states or of areas beyond the limits of national jurisdiction is the environment within its own jurisdiction, 47 including by taking appropriate ence; the preventive principle may require a state to prevent damage to the tal damage (and the protection of the environment) as an objective itself. This be distinguished from the second element of Principle 21 and Principle 2 in occur. This obligation, sometimes referred to as the preventive principle, can regulatory, administrative or other measures. The preventive principle reimportant difference of underlying rationale is related to the second differ-Closely related to the obligation not to cause damage to the environment of

> occurred'.48 stage. It is no longer primarily a question of repairing damage after it has since it allows action to be taken to protect the environment at an earlier as being of 'overriding importance in every effective environmental policy, tives by extensive domestic and international legislation. It has been described actually occurred, and is supported for a broad range of environmental objecquires action to be taken at an early stage and, if possible, before damage has

well-developed. of 'good neighbourliness', as enunciated in Article 74 of the UN Charter for on borders is an example where cooperatively obligations are particularly activities might be ultrahazardous. The construction of nuclear power plants impact assessments, and cooperative emergency procedures, particularly where tion or participation rights in certain decisions, the conduct of environmental terms the obligation can require information sharing, notification, consultato improve relations outside a treaty or in relation to certain tasks. In specific terms the obligation includes commitments to implement treaty objectives, or many international agreements and is supported by state practice. In general jurisdiction. The commitment to environmental cooperation is reflected in applies particularly where activities carried out in one state might have adtal matters by rules promoting international environmental co-operation. It social, economic and commercial matters, has been extended to environmen-3.1.2 Good neighbourliness and international cooperation The principle verse effects on the environment of another state or in areas beyond national

tations to arrive at an equitable resolution of the situation interference or a significant risk thereof, and to engage in good faith consultion of plans to carry out or permit activities which may entail a transboundary and in a spirit of cooperation, to prevent disputes, to provide timely notificatransboundary resources, including the obligation to negotiate in good faith to cooperate in good faith in the implementation of principles affecting claimed that Czecho-Slovakia (now just Slovakia) has violated its obligation was referred to the International Court of Justice in 1993. Hungary has the Grabcikovo Dam and the proposed diversion of the Danube River, which issue in the dispute between Hungary and Slovakia over the construction of The extent to which this obligation has been complied with is a central

only recently begun to be used in international agreements. The ideas undersustainable. Although the ideas underlying the concept of 'sustainable development' have a long history in international legal instruments, the term has ensure that they develop and use their natural resources in a manner which is 3.1.3 Sustainable development An emerging principle requires states to lining 'sustainability' date at least to the Pacific Fur Seal Arbitration in 1893

seals and to protect them, for the benefit of mankind, from wanton destrucwhen the USA asserted a right to ensure the legitimate and proper use of

refers to the commitment to preserve natural resources for the benefit of used in the Brundtland Report.49 First, as invoked in some agreements it comprise the legal elements of the concept of 'sustainable development' as at least four separate but related objectives which, taken together, might ever, a more complicated matter. Where it has been used it appears to refer to environmental objectives. use by any state must take account of the needs of other states and people. resources based upon harvests for use; examples include use which is 'susand projects, and that development needs are taken into account in applying tions be integrated into economic and other development plans, programmes And a fourth category of agreements require that environmental consideraagreements require an 'equitable' use of natural resources, suggesting that the tainable', or 'prudent, or 'rational', or 'wise' or 'appropriate'. Third, yet other velopment refers to appropriate standards for the exploitation of natural present and future generations. Second, in other agreements sustainable de-What 'sustainable development' means in international law today is, how-

proposals and principles to govern human activity. and translate them in Agenda 21 and the Rio Declaration into more specific The instruments adopted at UNCED reflect each of these four objectives,

and clamping down on a range of human activities. The core of this emerging environmental threats such as ozone depletion or climate change.50 Oppogenerated considerable controversy. Some of its supporters invoke it to justainty and is, potentially, the most radical of environmental principles. It has international environmental law and policy in the face of scientific uncerguidance to states and the international community in the development of viously been relied upon in some domestic legal systems. It aims to provide in international legal instruments in the mid-1980s, although it had pre-3.1.4 Precautionary principle The precautionary principle only emerged measures to prevent environmental degradation" scientific certainty shall not be used as a reason for postponing cost-effective that 'Where there are threats of serious or irreversible damage, lack of full reflected in Principle 15 of the Rio Declaration, which provides, inter alia legal principle, which has now been endorsed in a number of agreements, is nents, on the other hand, have decried the principle for allowing overregulation tify pre-emptive international legal measures to address potentially catastrophic

quirement that the costs of pollution should be borne by the person or persons 3.1.5 Polluter-pays principle The polluter-pays principle refers to the re-

> environmental damage, on the permissibility of state subsidies, and the growcustomary international law, except perhaps in relation to states in the EC is doubtful whether it has achieved the status of a generally applicable rule of to question since international practice based upon the principle is limited. It meaning, international legal status, and effect of the principle, remains open Agreement establishing the European Economic Area. 54 porting instruments include Principle 14 of the Rio Declaration, OECD Council pressures their societies place on the global environment', as well as the bear in the international pursuit of sustainable development in view of the ing acknowledgement by developed countries of the 'responsibility that they relates closely to the development of rules on civil and state liability for the UN/ECE and the OECD. It has nevertheless attracted broad support and responsible for causing the pollution and the consequential costs. The precise financial and other consequences that flow from this acknowledgment.51 Sup-Recommendations, 52 the EC Treaty and related instruments, 53 and the 1992

account of differing circumstances, particularly in relation to each state's environmental resources. The second element relates to the need to take of common but differentiated responsibility includes two important elements climate system 'on the basis of equity and in accordance with their common applicable in the Climate Change Convention to require parties to protect the is reflected in a handful of international environmental agreements, and is encouraged to participate in global environmental agreements. The principle national law, together with the recognition that the special needs of developing 3.1.6 Common but differentiated responsibility This principle has emerged mentation of environmental standards which impose different commitments addressing environmental problems. And it leads to the adoption and implecerned states to participate in international response measures aimed at has certain important consequences. It entitles, or possibly requires, all conability to respond to, prevent, reduce and control the threat. In practical terms contribution to the creation of a particular environmental problem and its but differentiated responsibilities and respective capabilities'. The principle interpretation of rules of international environmental law if they are to be countries must be taken into account in the development, application and from the application of the broader principle of equity in general interthe application of the principle of common but differentiated responsibility The first expresses the common responsibility of states to protect certain

3.2 Topics and rules

specific rules and topics have been adopted to address an ever widening range As international environmental law has developed standards in relations to

- the protection of the atmosphere, in particular by combating climate change, depletion of the ozone layer and ground level and transboundary air pollution
- protection of land resources, by combating descrification and drought and protecting mountain ecosystems)
- halting deforestation
- the conservation of biological diversity
- the protection of freshwater resources
- the protection of oceans and seas (including coastal areas) and marine living resources.

The second category of major issues identified the products of human technological and industrial innovation which are considered to be particularly harmful to the environment and which require international regulation. These are:

- the management of biotechnology
- the management of toxic chemicals, including their international trade
- agricultural practice
- the management of hazardous wastes, including their international trade
- the management of solid wastes and sewage-related issues
- the management of radioactive wastes.

The difficulty with an approach which regulates sector by sector is that it has tended to transfer harm from one environmental medium to another, or to substitute one form of harm for another. Thus the prohibition on the dumping of radioactive wastes at sea may result in harm to land-based resources resulting from long-term storage. Efforts to address this problem of regulatory approach have led to the emergence of the concept of integrated pollution control, which requires states and other persons to consider and minimize the impact of activities on all environmental resources at each stage of the processes which make up that activity.

the EC; the South Pacific; 38 and the Caribbean. early as 1900 in Africa and 1940 for the Americas. Subsequent arrangements Pacific fur seal arbitration, regional conservation agreements were adopted as servation agreements, including the regulations adopted by the tribunal in the examples of international environmental law. Apart from early fisheries con-Regional rules adopted in Africa and the Americas are among the earliest and the sharing of benefits arising out of the use of genetic resources). generally (also regulating the sustainable use of the components of biodiversity trade in endangered species and, most recently, the conservation of biodiversity now widely accepted standards which prohibit interference with, in particuthe subject of the earliest international environmental regulation and there are 3.2.1 Protection of flora and fauna The protection of flora and fauna was have been put in place in East Africa;56 South East Asia;57 Europe including fruitless in the face of sustained opposition from many developing countries However efforts to adopt a forests' convention at UNCED proved to be lar, endangered species. Important global instruments regulate wetlands,55

Acts adopted by international organizations have contributed significantly to the development of this area of international law. Notable examples include the 1982 decision by the International Whaling Commission to adopt a moratorium on commercial whaling, and the 1985 decision of the parties to the 1972 London Dumping Convention to adopt a moratorium on the dumping of radioactive waste at sea.

3.2.2 Protection of the marine environment. International law to prevent pollution of oceans and seas is now relatively well-developed at the global and regional levels. At the global level the 1982 UN Convention on the Law of the Sea, which enters into force in November 1994, establishes a comprehensive framework to address marine pollution from various sources, including dumping at sea; from land-based sources; from vessels; and from offshore installations, such as oil rigs. Apart from the instruments on intervention and liability and compensation for oil pollution, detailed obligations for these sources of marine pollution have been adopted both prior to and after UNCLOS. At the global level agreements regulate the dumping of waste at sea; on protection of the environment during salvage operations; ⁵⁹ and oil pollution preparedness and response. ⁶⁰ However no global agreement regulates pollution from land-based sources, which is particularly worrying since pollution from this source accounts for more than 70 per cent of the total.

At the regional level early instruments addressed dumping from ships⁶¹ and pollution from land based sources.⁶² These have since been supplemented by an extensive network of conventions adopted under the UNEP Regional Seas Programme which was initiated in 1975 and now includes programmes covering 10 regional seas: the Caribbean, East Asian, Eastern

conventions and supplementary protocols are in force for eight regions; Carib-South Pacific, South-East Pacific, and West and Central Africa, More than African, Kuwaiti, Mediterranean, Red Sea and Gulf of Aden, South Asian, South Pacific, and West and Central Africa. 63 Additional commitments have bean, Kuwaiti, Mediterranean, Red Sea and Gulf of Aden, South-East Pacific, 120 coastal states now participate in this UNEP Programme, and framework been adopted for the EC and Antarctic regions.

rivers, lakes and groundwaters. Many individual rivers and river systems are regimes, especially in North America⁶⁴ and other areas where acid rain deregion, or to all rivers globally. Lakes have also been subject to protective have been made to develop rules which apply to all rivers in a particular has been subject to treaty protection for many years. More recently efforts quality of their waters. Noteworthy examples include the Rhine in Europe. now subject to special rules governing their use and the maintenance of the 3.2.3 Protection of freshwater resources Freshwater resources include the Zambezi in Africa, and the River Plate in South America, each of which less well-developed in international law. posits have threatened long-term damage. Protection of groundwaters remains

addresses transboundary air pollution, ozone depletion and climate change 3.2.4 Air quality International law for the protection of the atmosphere for production patterns and, particularly, energy use. sions of certain substances for many states, which have important implications International measures now place limits on permissible atmospheric emis-

oxides66 and volatile organic compounds. 67 The transboundary air pollution ensure that greenhouse gas concentrations in the atmosphere do not lead to gases, and creating a framework for cooperation and general commitments to emissions by developed countries of carbon dioxide and other greenhouse also of global application. It entered into force in March 1994, aiming to limit model has since been relied upon in the global efforts to protect the ozone dangerous anthropogenic interference with the climate system. in 1990 and 1992.69 The 1992 framework Convention on Climate Change is the Ozone Layer, 68 as supplemented by a 1987 Protocol subsequently amended layer with the framework 1985 framework Convention for the Protection of has since been supplemented with protocols on sulphur dioxide, 65 nitrogen 1979 UNECE Convention on Long-Range Transboundary Air Pollution, which A new area of international regulation, the first instrument was the regional

rently limited to regulating or prohibiting trade in certain wastes, as well as 3.2.5 Wasre Binding international regulation of waste management is curthe provisions prohibiting the disposal at sea of certain hazardous wastes

> wastes produced, including packaging. These measures encourage waste prevention and minimization by increasing costs, and are likely precursors to measures which might limit industrial

regulation of radioactive waste movements is governed by a non-binding all substances the use of which is banned in the exporting country.72 Global vention goes beyond Basle by prohibiting exports and imports between the they occur (prior informed consent). The 1990 ACP-EEC Fourth Lomé Conimporting countries to be notified of, and grant consent for, shipments before which aims to control traffic and trade in hazardous wastes by requiring far less stringent than any of the three agreements.73 1990 IAEA Code of Practice, which establishes regulatory guidelines and is Africa, which also prohibits imports, redefines 'hazardous waste' to include Transboundary Movement and Management of Hazardous Wastes within Bamako Convention on the Ban of the Import into Africa and the Control of EEC and certain African, Caribbean and Pacific countries.71 And the 1991 hazardous waste. The only global instrument is the 1989 Basle Convention, 70 Three recent instruments establish regulations and prohibitions on trade in

ing, classification, packaging, labelling, advertising, international trade and of recommended practices which address product registration, dealer licenstrade and chemical safety at work.74 The OECD has developed a broad range management of hazardous substances, including in particular international body of detailed, non-binding regulations and other instruments dealing with binding global legal instruments. Within the past few years, however, a large other than waste, including chemicals and pesticides, is not yet subject to any 3.2.6 Hazardous substances The management of hazardous substances

3.3 Legal techniques

regulations, including quality standards, the emerging, modern techniques refred upon in international environmental law include: level. Apart from the widespread reliance upon prohibitions and statutory implement environmental principles and standards at the regional and global This section sets out the different legal techniques which are being used to

- environmental impact assessment requirements
- improving access to and dissemination of environmental information
- liability for environmental damage
- other economic approaches, including trade and competition rules financial resources and intellectual property rights
- improved enforcement procedures and dispute settlement machinery.

related, the 1987 Montreal Protocol and its 1990 Amendments marked the years ago outright prohibitions established by international law were trade activities, and recently the use of prohibitions has increased. Whereas a few defined geographic region. within a specified time frame, the production and use of certain chemicals first time that the international community adopted measures to ban outright, dards and then ensuring that they are enforced (sometimes referred to as These techniques supplement the general regulatory approach of setting stan-Treaty extends the prohibition approach to commercial activity within a harmful to the ozone layer. The 1991 Environmental Protocol to the Antarctic 'command and control'). This approach frequently regulates or prohibits

advertising shall not ... encourage behaviour prejudicial to the protection of television programme and advertising content, and provides that 'television casting activities, which establishes minimum standards for, inter alia particular note is the 1989 EC Directive on the pursuit of television broadsuch as advertising and corporate accounting. With regard to advertising, of the environment' The regulatory approach is also taking new directions in unlikely areas

establishes EIA obligations of general application, several regional or subject specific agreements include EIA provisions. Examples include the 1982 decision-making process. EIA requirements are becoming an established feaimpact of an activity before it is carried out with a view to determining endorsed, as a national instrument, by the Rio Declaration. eral Resource Activities,75 and the 1992 Biodiversity Convention. EIA is also Natural Resources, the 1988 Convention on the Regulation of Antarctic Min-UNCLOS, the 1985 ASEAN Agreement on the Conservation of Nature and ture of international environmental law. While no single global treaty projects is disseminated and that citizens are allowed to participate in the be considered, and provides a mechanism for ensuring that information on whether the activity should be permitted. It generally requires alternatives to (EIA) requires developers or regulators to assess the likely environmental Environmental impact assessment Environmental impact assessment

common for multilateral development banks to incorporate EIA requirements tion to the mitigation of transboundary impacts. It is also now increasingly Convention, which adopts more stringent requirements, particularly in relainto-their project approval procedures." 1985 by the EC,76 and in a 1991 UN Economic Commission for Europe Detailed modalities governing the conduct of EIAs have been adopted in

3.3.2 Environmental information There is now broad recognition of the importance of ensuring broad and early access to information on matters

> nisms and techniques have been developed including: of citizens in decision-making processes. A range of international mechathe behaviour of consumers and other actors, and ensuring full participation improving the informational base upon which decisions are made, influencing relating to the environment. Environmental information objectives include

- imposing international reporting requirements on international actors
- establishing international rights of access to information on the envi-
- establishing independent international observation and monitoring programmes

adopted by the OECD,78 EC79 and, to a lesser extent, the World Bank.80 The tive rationale is, therefore, both environmental and economic state laws which might create unequal conditions of competition. The legislaensure greater environmental protection, and to remove disparities in member dissemination of, environmental information held by public authorities, to ments, is intended to ensure free access throughout the EC to, and EC legislation, which has been followed by provisions in the other agreeto information on the environment is now reflected in various instruments to other parties, or to international. The objective of improved public access ments require state parties to provide certain information to national authorities With varying degrees of success most international environmental agree-

activities generally. Existing agreements are being amended in the light of of private actors has increased significantly and seems set to develop further Since then the number of international conventions establishing the liability environmental damage has been provided for in international instruments. age to people and property, and it is only more recently that civil liability for trade and the Antarctic. new environmental concern, and new liability rules can be expected for waste damage resulting from transport of dangerous goods 22 and from hazardous Recent instruments have addressed civil liability for environmental and other international agreements.81 However they only established liability for damdents, were among the first to identify private corporations expressly in hability of nuclear operators for certain damage resulting from nuclear accinational level). The early conventions of the 1960s, which established the cause environmental harm (these provide for civil liability rules at the quently the case, directly on the private actor engaged in the activity which International treaties can impose liability upon a state or, as is more freage is one way of integrating environmental costs into production processes. 3.3.3 Liability for environmental damage Liability for environmental dam-

Developments in relation to state liability have proceeded more slowly, and to date no treaty rules of general applicability establish the liability of states for environmental damage, although specific treaties regulate liability for damage caused by space objects and in the Antarctic.

3.3.4 Other economic approaches, including trade and competition rules, financial resources and intellectual property rights. The limited effectiveness of traditional 'command-and-control' regulatory approaches has led to some support for the principle of increasing reliance upon economic and fiscal measures to protect the environment. Recent agreements and other international acts, including the Rio Declaration, encourage the use of such measures and there are some signs that the growing interdependence of international economic and environmental law may provide a framework for their increased use.

situation where one state unilaterally adopts environmental protection measregional and global trade and economic cooperation arrangements. The GATT, context the additional issue has arisen as to the compatibility of trade measures adopted by international environmental agreements (such as CITES and ures which have the effect of limiting or prohibiting trade. In the GATT Economic agreements Environmental issues have progressively permeated North American Free Trade Agreement (NAFTA). sometimes differing priorities of developed and developing countries. This concerns in an international legal order which seeks to accommodate the encapsulates all the conflicts surrounding the proper place of environmental contentious despite the modus vivendi which was reached at UNCED, and justify limitations on free trade. This issue is set to become increasingly recognize that environmental requirements can, in certain circumstances, tween trade and environmental objectives, the general tendency has been to tribunals have reached different conclusions on the appropriate balance bethe 1987 Montreal Protocol) with the GATT, Although their institutions and EC and Canada-USA Free Trade Agreement have each had to address the led to the insertion of new provisions on environmental protection in the

Trade and competition rules. Multilateral prohibitions on trade in respect of endangered species and certain plant types have a long history pre-dating the GATT, dating back to at least 1940. Recently the use of trade prohibitions has been extended beyond nature protection to cover hazardous wastes and substances, such as those which deplete the ozone layer. More recently the 1987 Montreal Protocol and its 1990 Amendments adopt trade prohibitions and restrictions to limit production and consumption by non-parties, by:

- prohibiting the import of controlled substances from any state which is not a party to the Protocol
- providing for the eventual prohibition on the import from any non-party state of products containing controlled substances
- providing for the possible prohibition on the import from any non-party state of products produced with, but not containing, controlled substances.

Complex legal questions have been raised about the compatibility of measures such as these with free trade obligations under the rules of the EC, GATT and NAFTA. This has resulted in cases recently being brought before dispute settlement bodies, leading to conclusions as to the appropriate balance to be struck between free trade objectives and environmental protection objectives.

Economic instruments Many recent intergovernmental statements and declarations have called for the international use of economic and fiscal instruments as a tool of international environmental protection. Economic and fiscal policy instruments identified as potentially useful include taxes, emission charges and tradable emission permits. Many recent statements and declarations have endorsed the use of economic and fiscal instruments, but to date no binding international legal instruments establish or support taxes, charges or tradable permits. The most important development (which indicates the imminent introduction of laws making use of economic and fiscal instruments at the international level) is the EC Commission's proposal for a Community-wide tax 'based on an energy component and on a component based on carbon content', which is designed to limit use of fossil fuels to combat climate change.⁸³

Like pricing and taxation policy, international regulation of subsidies and public investment remain at an early stage of development, with little tangible evidence of hard law outside the EC context. The EC has taken something of a lead in developing the law relating to subsidies to accommodate environmental needs, and the issue seems set to be addressed by the GATT following the Uruguay Round.

Financial resources The use of financial resources provided by the public sector to encourage environmentally beneficial activities and projects has become an increasingly important topic in international environmental law. It entails two essential aspects. First, ensuring that the multilateral development and lending institutions incorporate environmental considerations into their activities. And second, ensuring the availability of international public sector funds to assist poorer countries in meeting the costs associated with increasingly stringent international environmental protection requirements.

countries and the fulfilment of treaty commitments by developing countries. to the latter, the most significant development in recent years has been the provision of finance by developed countries, and led to the establishment of a fulfilment by developing countries of their obligations dependent upon the The 1990 Montreal Protocol amendment was the first agreement to make the linkage made between the provision of financial resources by developed varying degrees have adopted measures to achieve that objective. With regard recognized the need to address and integrate environmental concerns, and to Convention. Multilateral Fund to meet certain incremental costs which arose under the With regard to the former, all the multilateral development banks have

in fulfilling their obligations. Other regional institutions, such as the EBRD, tions it will meet certain incremental costs incurred by developing countries of international waters. Under the Climate Change and Biodiversity Convenaddressing ozone depletion, climate change, biodiversity and the protection the World Bank, UNEP and UNDP. The GEF allocates resources to projects over \$1 billion, and is administered through a tripartite arrangement between programmes that protect the global commons. The Facility is capitalized at or concessional loans on an additional basis to enable them to implement tral and Eastern Europe to 'environmental' projects. have also undertaken to commit a significant proportion of its funds in Cen-The Global Environment Facility was established in 1990 to provide grants

environmental principles, standards and techniques: they must be implesuch mechanisms, including the potential role of NGOs and international tive mandate to provide fora to address and settle disputes. Efforts to develop mented domestically by states and international institutions and enforced there is also now a recognition that it is not sufficient to adopt international Improved enforcement procedures and dispute settlement machinery Finally where non-compliance occurs, and tribunals and other bodies given an effecsecretariats in supplementing governmental efforts, are considered in the next

4 Compliance

of increasing concern in recent years. This is evident from the attention which the issue of compliance received during the preparations for UNCED, munity with their international environmental obligations has become a matter Ensuring compliance by states and other members of the international comconcerns has resulted in initiatives to develop existing mechanisms for implements, including in particular the 1987 Montreal Protocol, the 1992 Climate and in the negotiation and implementation of recent environmental agree-Change Convention and the 1992 OSPAR Convention. The response to those

mentation, enforcement and dispute settlement, and to develop new mecha-

in relation to those states which are complying with their obligations. unlawful, economic advantage from their environmentally harmful activities their environmental obligations are perceived to gain unfair, and perhaps And third, as international environmental obligations increasingly address coupled with a finite, and perhaps even shrinking, available resource base of states and those subject to their jurisdiction for access to natural resources, and with which they must comply. Second, the growing demands and needs fundamental economic interests and needs, states which do not comply with provide the conditions for increasing conflict over access to natural resources. ments, under treaty and other obligations, which are increasingly stringent transformed in recent years as states take on more environmental committhe nature and extent of international environmental obligations has been Compliance has become increasingly important for several reasons. First

non-contentious and non-adversarial manner. where possible, enforcement and the settlement of disputes are addressed in a peacefully when they arise. Recent efforts have also sought to ensure that, disputes as on the development and application of procedures to resolve them attention has focused as much on the need to devise mechanisms to prevent national order. At UNCED, and in relation to the treaties mentioned above, process, and can lead to conflict between states and instability in the intermines commitments which have been made under the international legal Non-compliance limits the overall effectiveness of those treaties, under-

enforcement, and conflict resolution (or 'dispute settlement'). These are: environmental impact assessment or consult with a neighbouring state on the of any rules of customary law); the failure to fulfil procedural requirements rate, but closely related, questions which relate to implementation, construction of a new plant); or the failure to fulfil an institutional obligation which may be required by international law (for example to carry out an allow transboundary emissions of hazardous substances or gases in violation emission of sulphur dioxide or greenhouse gases as required by treaty or to From an international legal perspective, compliance raises at least three sepa-(for example to submit an annual report to an international organization). failure to give effect to substantive norms (for example to limit atmospheric Non-compliance can occur in a number of different ways, including the

- tion take to implement its international legal obligations? What formal or informal steps must a state or international organiza-
- organization? international environmental obligations of a state or international What legal or natural person may seek, or has the right, to enforce the

law to resolve conflicts or settle disputes over alleged non-compliance What techniques, procedures and institutions exist under international with international environmental obligations?

context of a variety of different issues, including: transboundary air polluand been submitted to international dispute resolution arrangements, in the ance, drawing upon developments in general international law. Since the and responsibility for rehabilitation of mined lands, 87 ronmental protection requirements to enforce domestic conservation standards fisheries resource;86 the adoption of import restrictions in the name of envition;14 the diversion of the flow of international rivers;35 conservation of Pacific Fur Seal arbitration of 1893, environmental disputes have since arisen, Over the years a range of techniques have been adopted to improve compli-

4.1 Implementation

organizations, such as reporting the measures taken to give effect to international obligations, trol; and third, by fulfilling any obligations to the relevant international programmes are complied with by those subject to its jurisdiction and consecond, by ensuring that such national environmental legislation, policies and States implement their international environmental obligations in three phases First, by adopting national implementing legislation, policies and programmes

require parties to designate a competent national authority or focal point for or 'to take appropriate measures within its competence to ensure compliance gies by administrative or other means. Some treaties expressly require parties mental obligation it will usually need to develop, adopt or modify relevant 4.1.1 National law Once a state has accepted an international environhas developed particular rules on this matter. dards.91 Treaty obligations which have not been implemented into national with the Convention and implement applicable international rules and stan-UNCLOS requires states to enforce their laws and regulations in accordance international liaison purposes on domestic implementation.90 The 1982 with [the] Convention and any measures in effect pursuant to it', 59 Others to take appropriate measures to ensure the implementation of obligations, 85 national legislation, or give effect to national policies, programmes or stratelaw will generally be difficult to enforce in national courts, although the EU

within its jurisdiction and control. Some treaties expressly require this, 92 to an international agreement must ensure that it is complied with by those while others require the application of sanctions or punishment for viola-National compliance Once implemented into national law, the party

> environmental obligations in the public interest.94 upon the rules governing access to national courts to allow enforcement of damage caused by waste, was the first international agreement to elaborate rope Civil Liability Convention, which addresses rules of civil liability for tions.93 Ensuring national compliance is a matter for the public authorities of including redress and remedy, shall be provided'. The 1993 Council of Eudeclares that '[e]ffective access to judicial and administrative proceedings, fore national courts through 'citizen suits'. Principle 10 of the Rio Declaration are allowing private enforcement of national environmental obligations begovernmental actors can play in ensuring compliance, more and more states resources or a lack of commitment, and recognizing also the role which nonparticularly well-suited to ensuring compliance, either because of a lack of each state. Recognizing that public authorities in many countries may not be

absence of specific treaty provisions the rules governing enforcement jurisinternational law concerning enforcement jurisdiction. diction for their environmental media remain subject to the general rules of adopted in respect of activities on the moon and in the Antarctic.96 In the pollution incident occurred.95 Analogous jurisdictional provisions have been ties between the flag state, port state, or coastal states depending on where the includes detailed rules on the division of national enforcement responsibiliobligations to particular states. For marine pollution the 1982 UNCLOS natural resource or the global commons. Some treaties allocate enforcement where the environmental obligation relates to the protection of a shared The question of which state may or must ensure implementation is difficult

country parties for implementing their substantive obligations under the Conrequirements and the 'agreed full incremental costs' needed by developing incurred by developing country parties in complying with their' reporting tions also require developed country parties 'to meet the agreed full costs the Protocol'. 97 The Climate Change Convention and Biodiversity Convenestablishing a mechanism to 'meet all agreed incremental costs' of developments to the 1987 Montreal Protocol established an important precedent by to them of financial assistance by developed countries. The 1990 Amenddevelopment is the linkage which has been made between the national impletions because of lack of financial and other resources, an important recent ing country parties 'to enable their compliance with the control measures of mentation by developing countries of their treaty obligations and the provision Given the failure of many states to implement their international obliga-

sequence of the requirement that states must usually report the measures 4.1.3 Reporting The third element of national compliance arises as a conwhich they have adopted to give effect to their international obligations to the

tion on breaches or violations by persons under the jurisdiction or control of have been taken by national authorities; scientific information; and informaures which have been adopted; details of any relevant decisions which may or authorizations; including criteria; information on implementation meastion on production, imports and exports; information on the grant of permits each treaty or other obligation, but typically can include statistical informatreaty or other international act. The information to be reported will vary with relevant international institution responsible for implementing a particular

way towards improving compliance countries of fulfilling their reporting requirements, and this should go some resources will be made available to meet the incremental costs of developing ments.100 Under the Biodiversity and Climate Change Conventions financial reports, and found wide variations in compliance with reporting requireinter alia, six environmental treaties which require parties to submit periodic States Committee on Environment and Public Works recently considered basic obligation to provide a regular report. A report prepared for the United are implementing their obligations. Many states are unable to fulfil even the institution and the other parties to assess the extent to which, and how, parties to some other time frame.99 They provide a means for the international These reports may be required on an annual or biannual basis, or according

4.2 International enforcement

organization (including its secretariat), or by non-governmental actors. In available include international enforcement by states, by an international body that such obligations are not being fulfilled. The options which are international legal obligations or to obtain a determination by an international Enforcement means the right to take measures to ensure the fulfilment of that international environmental obligation on the plane of international law law, the question arises as to which entities or persons may seek to enforce failed to implement an environmental obligation established by international Once evidence has become available that a state, or a party to a treaty, has practice international enforcement usually involves a combination of the

another state". 101 Responsibility, that it is 'a state a right of which is injured by the act of to Article 5 of the International Law Commission's Draft Articles on State national Law Commission, be an 'injured state'. This in turn means, according of international environmental law a state must, in the words of the Interrules of international environmental law. To be in a position to enforce a rule 4.2.1 Enforcement by states States have the primary role in enforcing

> cause damage to the environment of another state. The second situation is area beyond national jurisdiction. where one state is permitting or causing damage to the environment in an first involves the situations where one state is permitting activities which For environmental injuries two situations need to be distinguished. The

transboundary air pollution from sulphur emissions in Canada, and that as an violated its rights. 'injured state' it was entitled to bring a claim against Canada for having Canada, a right not to be subjected to the harmful consequences of that it had, under the principles of international law as applied between it and international claim. In the Trail Smelter case the USA successfully claimed able to argue that it is an 'injured state' and that it has standing to bring an In situations involving damage to its environment a state will usually be

to be in violation, even if it has not suffered material damage. 102 agreement, it will have the right to enforce the obligations of the party alleged believes that another party is in violation of its obligations under that treaty or high seas? As a general matter, where one party to a treaty or agreement nuclear tests generally or which were in alleged violation of the freedom of the obligation owed to all members of the international community to be free from claim to the International Court of Justice on the basis of a violation of an tion than the allegation of a violation of sovereignty by the deposit of radioactive region, the claim raised an additional and rather more complicated legal quescalling on the latter to halt its atmospheric nuclear testing in the South Pacific fallout in its territory: did Australia and New Zealand have the right to bring a the Nuclear Tests' cases, brought by Australia and New Zealand against France Not all cases will be as straightforward as the Trail Smelter case, however. In

enforce the obligation by invoking the non-compliance or dispute settlement under that treaty would entitle any other party to the Protocol to seek to national law is less well-developed, although there may be a move in the against the UK for unlawfully having enforced domestic legislation setting a mechanisms under the Protocol, without having to show that it had suffered failure by one party to the 1987 Montreal Protocol to fulfil its obligations direction taken by the EC under some recent environmental treaties. Thus a minimum mesh size for prawn fisheries.104 The situation in general inter-Justice on only one occasion, when France successfully brought proceedings ings, it appears to have resulted in a decision by the European Court of right has been relied upon on numerous occasions to threaten court proceedto bring the matter before the European Court of Justice, 103 Although this has failed to fulfil an EC obligation, including an environmental obligation. Treaty allows a member state which considers that any other member state obligations will usually be settled by the terms of the treaty. Thus the EC For alleged breaches of treaty obligations, the right of a state to enforce

other measures in respect of harm to the global commons. precludes parties from requesting an environmental impact assessment or cation to the global commons. The 1991 Espoo Convention, for example, treaty or related instruments. Some treaties specifically preclude their applienforcement rights in accordance with the provisions available under that establishing dispute settlement mechanisms which will settle the question of tions are made. 105 Most other environmental treaties are less explicit, Convention may inform the secretariat and the party against whom the allega-Convention similarly provides that any party 'which has reason to believe environmental damage as a result of the alleged failure. The 1989 Basle that another party is acting or has acted in breach of its obligations' under the

cant damage from occurring to the environment in areas beyond its national its capacity as a member of the international community to prevent signifialthough the tendency seems to favour the right of a state to bring an action in by some of the judges in a third case. The matter remains inconclusive in passing by the International Court of Justice on at least two occasions, and cult to answer in the absence of state practice. The matter has been considered (sometimes referred to as actio popularis) is a question which remains diffirights of legal protection on behalf of the international community as a whole ment in areas beyond its national jurisdiction such as to allow it to exercise Montreal Protocol, a general legal interest in the protection of the environ-Whether a state has, in the absence of a specific treaty right such as the

nity, is increasingly being considered. subsequently bind the enforcing state, an increased enforcement role for the mere attempt to enforce obligations can establish a precedent which could quences of the accident at the Chernobyl nuclear power plant in 1986. Where former USSR with its international legal obligations arising out of the consenotorious is the failure of any state to seek to enforce compliance by the tion of the environment is evidenced by many examples. Perhaps the most international organizations, or other members of the international commu-The unwillingness of states to enforce obligations concerning the protec-

ingness to grant more powers to international organizations. are some indications that this reluctance is being replaced by a limited willpowers to international organizations and their secretariats, although there international environmental law, their executive function in its enforcement is ganizations play an important legislative role in the development of 4.2.2 Enforcement by international organizations While international orlimited. States have been unwilling to transfer too much, if any, enforcement

ganizations include the right of the River Danube Mixed Commission to Early examples of limited enforcement roles granted to international of-

> by the next conference of the parties and 'which may make whatever recomadversely by trade in specimens, may communicate that information to the tion it has received indicates that certain endangered species are being affected national enforcement measures or systems, 107 and the right of the International right of certain international fisheries institutions to 'recommend' intermendations it deems appropriate*. 109 relevant party or parties, which may then lead to the matter being reviewed means coincide', 108 The CITES Secretariat, where it is satisfied that informacompare draft national programmes of parties to ensure that 'their aims and Commission for the Protection of the Rhine against Pollution to regularly 'work out agreed measures' for the regulation of fishing in the Danube, 106 the

Antarctic environment in the interest of all mankind'. 113 mineral resource activities with a view to safeguarding the protection of the ing of mineral prospecting, and keeping 'under review the conduct of Antarctic ciples of the Convention.112 It would also 'ensure the effective application' of is not a party which affects the implementation of the objectives and prinmeasures in effect pursuant to it, as well as of any activities by a state which of CRAMRA or the compliance by any party with its obligations and any any activity which affects the implementation of the objectives and principles CRAMRA, would have been required to draw to the attention of all parties sources Commission, which would have been established under the 1988 of non-compliance; to issue emergency orders 'to prevent serious harm to the national organizations. Under the 1971 Oil Pollution Fund Convention, the the provisions in the Convention concerning, inter alia, notification, reportsupervise inspectors to ensure compliance. 111 And the Antarctic Mineral Remarine environment arising out of activities in the Area'; and to direct and attention of the Assembly to cases of non-compliance'; to institute proceedand coordinate the implementation' of Part XI of UNCLOS and 'invite the endowing some of its institutions with a range of enforcement powers. Thus ties, 116 The 1982 UNCLOS also introduces innovative arrangements by ings on behalf of the Authority before the Seabed Disputes Chamber in case the Council of the International Seabed Authority has the power to 'supervise Fund may take enforcement proceedings before the national courts of Parthe Antarctic environment foresee an enhanced enforcement role for inter-Developments in relation to the protection of the marine environment and

of the reports submitted by the parties. Second, when appropriate the Comtion and the decisions and recommendations adopted thereunder on the basis functions. First, it must 'assess' the compliance by parties with the Convenrole for the Commission it creates in ensuring compliance with obligations mission may: Under Article 23, which is entitled 'Compliance', the Commission has two The 1992 OSPAR Convention also goes some way towards establishing

and decisions adopted thereunder, and promote the implementation of recommendadecide upon and call for steps to bring about full compliance with the Convention tions, including measures to assist a Contracting Party to carry out its obligations. 114

states of their environmental obligations under the EC law. Article 155 of the the Treaty and the measures taken by the institutions are applied, and Article The EC Commission is required to ensure compliance by the EC member 169 of the EC Treaty provides that: 1957 EEC Treaty requires the Commission to ensure that the provisions of

under this Treaty, it shall deliver a reasoned opinion on the matter after giving the If the Commission considers that a Member state has failed to fulfil an obligation state concerned the opportunity to submit its observations.

commenced 16 infringement proceedings against member states under Article controversial use of its powers under Article 169. In 1982 the EC Commission 169; by 1990 the number had risen to 217 infringement proceedings. 115 In environmental matters the EC Commission has made frequent and often

organizations are playing a role in enforcement of international obligations at the transboundary level and in other international contexts. national treaty and other obligations. Increasingly, however, non-governmental enforcing national measures adopted by a state in implementing its interpolitical means or by recourse to administrative or judicial procedures for informal, and their primary role continues to be at the national level, through development and application of international environmental law. In the enrules of public international law non-governmental actors are not international 4.2.3 Enforcement by non-governmental actors According to traditional forcement process the role of environmental organizations can be formal or law and its associated fields. In practice they play a central role in the legal persons except within the limited confines of international human rights

dures" to prevent pollution, have it abated, and/or obtain compensation for the enquiries and 'recourse to and standing in administrative and judicial proceenvironmental damage in a transboundary context. These sought either to damage caused. These general rights were further elaborated the following rights relating to access to information and participation in hearings and the constituent elements of a system of equal right of access, 116 including dation on Equal Right of Access in Relation to Transfrontier Pollution identified the event of transboundary incidents. The 1976 OECD Council Recommenvictims of transfrontier pollution, or to establish the jurisdiction of courts in establish principles or rules governing equal access to national courts by their role, particularly where individuals were the victims of pollution or Many early environmental agreements sought to recognize and encourage

> in Relation to Transfrontier Pollution, 117 Implementation of a Regime of Equal Right of Access and Non-Discrimination year by a slightly more detailed OECD Council recommendation for the

on civil liability. is also envisaged by a number of the treaties establishing international rules to prevent damage and compensation. 118 An enforcement role for individuals state the permissibility of such activities, including the question of measures state to bring before the appropriate court or Administrative Authority of that nuisance caused by environmentally harmful activities in another contracting tection Convention allows any person who is affected or may be affected by a of courts over transboundary disputes. The 1974 Nordic Environmental Proand other binding obligations which address equal access or the jurisdiction The non-binding OECD instruments are supplemented by a range of treaty

occurred or the place of the event giving rise to it'. has an option to commence proceedings either at the place where the damage 5(3) should be interpreted 'in such a way as to acknowledge that the plaintiff terred to the European Court of Justice. The European Court held that Article reference request from the Appeal Court of The Hague the matter was rein The Netherlands rather than in France, and on an Article 177 preliminary nesses in The Netherlands. 119 The Dutch plaintiffs wished to bring proceedings River in France but the damage was suffered by Dutch horticultural busidischarged over 10 000 tonnes of chloride every 24 hours into the Rhine asked for the first time to interpret the meaning of the words 'where the GJ Bier v. Mines de Potasses d'Alsace the European Court of Justice was the courts of the place 'where the harmful event occurred'. In Handelskwekerij jurisdiction in matters 'relating to tort, delict or quasi-delict' is conferred on and Commercial Matters (1968 Brussels Convention) it is provided that Brussels Convention on Jurisdiction and Enforcement of Judgments in Civil generally allow the victim a choice of courts. Under Article 5(3) of the 1968 mercial matters, including disputes arising out of the law of tort. These rules allocating jurisdiction to national courts over a range of civil and comment of environmental laws are those establishing private international law harmful event occurred' in a case in which the defendant was alleged to have The other category of conventions assuring a role for individual enforce-

organizations, may bring complaints directly to an international body. regional human rights treaties individual victims, including non-governmenta by member states of their environmental obligations. In 1991 more than 400 by submitting complaints to that institution concerning the non-implementation active role in supporting the enforcement role of the EC Commission, usually Non-governmental organizations and individuals have played a particularly actors to play an enforcement role are extremely limited. Under some of the At the international level the formal opportunities for non-governmental

complaints were received by the EC Commission concerning non-compliance by the Commission. with environmental obligations, leading to a number of formal investigations

4.3 International conflict resolution (settlement of disputes)

A range of processes' and mechanisms' are available at the international level Charter identifies the traditional mechanisms for the pacific settlement of implementation of international obligations. Article 33 of the United Nations to assist in the pacific settlement of environmental disputes arising over non-

the parties to any dispute, the continuance of which is likely to endanger the maintenance of international peace and security, shall, first of all, seek a solution resort to regional agencies or arrangements, or other peaceful means of their own by negotiation, enquiry, mediation, conciliation, arbitration, judicial settlement,

a subsidiary body for implementation, which is intended to provide assistnew techniques which aim at establishing non-contentious mechanisms binding decisions for the parties to the dispute (arbitration and judicial the settlement of remaining disputes in more traditional ways by reference of questions regarding implementation in a non-confrontational way; and ance in implementation; a multilateral consultative process for the resolution least three mechanisms to assist in dispute resolution or non-implementation: flexibility, is the 1992 Climate Change Convention, which envisages at recent example of this approach, which is intended to provide maximum range of options for dispute settlement and encouraging implementation. A The practice of the most recent treaties has been to provide parties with a which allow the intervention of a third party in an international context. tlement. More recently there has been a move towards the development of more formal mechanisms, such as conciliation, arbitration and judicial setnisms, such as negotiation and consultation, supplemented by the use of Initially the trend was towards the use of informal and non-binding mechaa diplomatic or legal nature, or of a voluntary or mandatory character treaties did not provide for any dispute settlement mechanisms, whether of the treaty establishing the institution. Many of the earliest environmental legal consequences of any decision taken by the institution will depend on tions as mediators and conciliators provide something of a middle way: the settlement). Recourse to regional arrangements and international organizaconsultation, mediation, conciliation); and legal means which result in legally in so far as they may accept or reject a proposed settlement (negotiation, matic means according to which of the parties retain control over the dispute These different techniques can be divided into two broad categories: diplo-

> Justice, or to international conciliation, 120 to negotiation, or submission to arbitration or the International Court of

4.3.1 Negotiation and consultation The technique of negotiation has been negotiation should be: Jurisdiction Case the International Court of Justice held that the objective of used to resolve a wide range of environmental disputes. In the Fisheries

the delimitation of the rights and interests of the Parties, the preferential rights of the coastal state on the one hand and the rights of the Applicant on the other, to balance and regulate equitably questions such as those of catch-limitation, share and type of vessels allowed and forms of control of the agreed provisions', 121 allocations and 'related restrictions concerning areas closed to fishing, number

derived from the applicable law'.122 matter of finding simply an equitable solution, but an equitable solution ests of other states which have established fishing rights in the area. It is not a based on the facts of the particular situation, and having regard to the intereach must in good faith pay reasonable regard to the legal rights of the other conduct of future negotiations: they should be conducted 'on the basis that ... thus bringing about an equitable apportionment of the fishing resources The International Court also set out conditions establishing the basis for the

accordance with the provisions' of the 1972 Space Liability Convention to which both countries were parties, 123 context of the USSRs consideration of the question of damage 'in strict disintegration over Canada of Cosmos 954, a nuclear-powered satellite launched by the USSR. The negotiated settlement was agreed to in the ment between Canada and the USSR concerning damage caused by the resolution of claims and disputes by negotiation. One example was the settledoors it is difficult to identify specific examples involving the successful approaches. Since negotiations of this type invariably take place behind closed channels to resolve their disputes before making use of other more formal to the need to ensure that parties resort to negotiation and other diplomatic Environmental treaties refer, more or less as a matter of standard practice

duty to consult with Spain over certain projects likely to affect Spain's as a technique to avoid and resolve disputes and potential disputes between Interests, and that in this context: states. In the Lac Lanoux Case the arbitral tribunal held that France had a Consultation between states is also encouraged by environmental treaties

applied in the event, for example, of an unjustified breaking off of the discussions, abnormal delays, disregard of the agreed procedures, systematic refusals to take the reality of the obligations thus undertaken is incontestable and sanctions can be

into consideration adverse proposals or interests, and, more generally, in cases of violation of the rules of good faith, 124

situations; pollution from land-based sources of certain substances; on the permissibility of environmentally harmful activities; and generally problems high seas; prior to the grant of permission for ocean dumping in emergency measures to prevent pollution of coastlines from oil pollution incidents on the velopment plans which may affect the natural resources of another state; numerous diverse situations, including the following non-exhaustive list: debreaches of obligation. in applying a treaty or the need for and nature of remedial measures for Specific examples of environmental treaties requiring consultation relate to

dispute and makes formal proposals for the resolution of the dispute. proposals of his or her own. In the case of conciliation, the third person conciliation involve the intervention of a third person. In the case of mediaassumes a more formal role and often investigates the details underlying the proposals between the parties to a dispute, and may even offer informal tion the third person is involved as an active participant in the interchange of the use of mediation125 or conciliation125 to resolve disputes. Mediation and tiation and consultation fail, a number of environmental treaties provide for 4.3.2 Mediation, conciliation and international institutions. Where nego-

arbitration or the International Court of Justice. 128 and recommendatory, and coordinating functions. GATT Dispute Settlement the dispute have not accepted compulsory dispute settlement procedures by Panels perform a similar function. Under the 1985 Vienna Convention and the 1992 Biodiversity Convention, conciliation will be used if the parties to Commission established by Canada and the USA in the 1909 Boundary Waters Treaty, 127 which fulfils a combination of quasi-judicial, investigative Early examples of conciliation include the role of the International Joint

between parties absent a specific mandate to do so. parties to the treaty, or, as is more usually the case, seek to resolve disputes play an important role in the settlement of disputes. Such organs may either be granted an express mandate to consider disputes between two or more The political organs of international institutions and regional agencies also

established by the Second Meeting of the Parties to the 1987 Montreal col and conducted under the auspices of an Implementation Committee hist is the non-compliance procedure established under the 1987 Montreal Protovations about another party's implementation of its obligations under the Protocol. 129 Under the non-compliance procedure any party which has reserpliance issues and disputes relating to non-compliance. An important mode Some treaties established specialized subsidiary bodies to deal with com-

> regarding another party's implementation of its obligations under the Protoof the Parties in respect of non-compliance, which comprise: also adopted an indicative list of measures that might be taken by a Meeting about full compliance with the Protocol. The Fourth Meeting of the Parties the Meeting of the Parties, which may decide upon and call for steps to bring parties. The Committee is to try to secure 'an amicable resolution of the information with the Executive Committee of the Multilateral Fund related to ing in the territory of that party, and will also maintain an exchange of may, at the invitation of the party concerned, undertake information-gatherconnection with the preparation of reports based on information submitted by col, and any information or observations forwarded by the secretariat in sider and report on submissions made by any party concerning reservations equitable geographical distribution for a two-year period, is to receive, connally five parties) elected by the Meeting of the Parties on the basis of of the Implementation Committee, which now consists of 10 parties (origireply and other information to the Implementation Committee. The functions obligations under the Protocol, and will transmit the original submission, its party alleged to be in violation whether it is unable to comply with its ing information. The secretariat will then determine with the assistance of the matter on the basis of respect for the provisions of the Protocol' and report to the provisions of financial and technical cooperation to developing country the parties pursuant to their obligations under the Protocol. The Committee Protocol may relate its concerns in writing to the secretariat, with corroborat-

- appropriate assistance;
- issuing cautions; and
- suspension (in accordance with the applicable rules of international law concerning the suspension of the operation of a treaty) of specific rights and privileges under the Protocol. 130

settlement provisions available under Article 11 of the 1985 Vienna Conven-Resort to the non-compliance procedure is without prejudice to the dispute

played an important role in the development of international environmental an engagement to submit in good faith to the award', 131 Arbitral awards have choice and on the basis of respect for the law. Recourse to arbitration implies 4.3.3 Arbitration International arbitration has been described as having Fur Seal Arbitration, the 1941 Trail Smelter Arbitration, and the 1957 Lac tive rules on environmental protection and use of natural resources: the 1893 law, and three in particular have contributed to the development of substan-Lanoux Arbitration. for its object the settlement of disputes between states by judges of their own

or its working arrangements. 134 And yet other treaties refer simply to the possibility of submitting disputes to arbitration without providing any details on the establishment of such a body the instigation of one party to the dispute132 or both parties to the dispute.133 nexes or protocols, providing for the submission of disputes to arbitration at Several environmental treaties establish detailed provisions, including an-

competent to deliver a legally binding decision. In relation to environmental the courts established under the various regional human rights treaties, and play, a role; the International Court of Justice, the European Court of Justice, disputes four international courts have played, and are likely to continue to also be referred to an international court, which is a permanent tribunal the courts and tribunals established under the UN Convention on the Law of International courts The settlement of international disputes may

at the request of states or certain international organizations. 135 sometimes referred to as the World Court or The Hague Court, is the princibetween two or more states, or to give advisory opinions on questions of law pal judicial organ of the UN. It was established as a successor (although no 4.3.5 International Court of Justice The International Court of Justice. dispute depends on whether the Court has been invoked in a contentious case in 1945. Jurisdiction of the International Court of Justice over a particular formally the legal successor) to the Permanent Court of International Justice

parties to the dispute.137 In recent years the practice has developed in environby recourse to arbitration or to the ICI. 138 Few parties accept this option. accession, or at any time thereafter, to accept compulsory dispute settlement reference of a dispute to the Court requires the consent, in each case, of all compulsory jurisdiction of the International Court, 136 but more usually the tional Court of Justice (ICI) to settle disputes. Occasionally they establish the mental treaties of allowing parties at the time of signature, ratification or Many environmental treaties provide for possible recourse to the Interna-

a breach of an international obligation; and the nature or extent of the reparanational law, the existence of any fact which, if established, would constitute tion to be made for the breach of an international obligation. 139 Acceptance of disputes concerning the interpretation of a treaty, any question of interthe Court, in relation to other states accepting the same obligation, in all legal of the Court may declare that they recognize the compulsory jurisdiction of 36(2) of the Statute (the 'Optional Clause') under which parties to the Statute ally, or on condition of reciprocity, or for a limited period of time. 140 the jurisdiction of the Court under Article 36(2) may be made uncondition-Contentious environmental cases could also get to the ICI under Article

> conditions to declarations made under the Optional Clause. Additionally the practice of the Court has been to accept reservations or

environmental issues, and in July 1993 it established a seven-member Chamwith any environmental case falling within its jurisdiction. developments in the field of environmental law which have taken place in the ber for Environmental Matters. This decision was taken in view of the last few years and the need to be prepared to the fullest possible extent to deal As set out in the text the Court has had an opportunity to consider several

should be taken which might aggravate or extend the dispute or prejudice the environmental protection. In the Nuclear Tests Cases the Court indicated age will make interim measures particularly important in cases concerning rights of the parties to a dispute. 142 The irreparability of environmental damindependent international legal advice on environmental matters. If it considion, this route could provide a useful and non-contentious way of obtaining environmental issue has been the subject of a request for an Advisory Opincepted and acted upon by that body. Although no legal question on an tions arising within the scope of their activities.141 Advisory opinions are not General Assembly to request advisory opinions of the Court on legal quesallows other organs of the UN and specialized agencies authorized by the to request the ICJ to give an advisory opinion on any legal question, and rights of another party, and calling on France to 'avoid nuclear tests causing interim measures of protection, asking that the parties to ensure that no action has the power to indicate interim measures of protection to preserve the ers that the circumstances so require, the International Court of Justice also binding in law upon the requesting body, although in practice they are acthe deposit of radio-active fall-out on Australian territory'. 143 The UN Charter also allows the General Assembly or the Security Council

similar right to bring a matter before the ECJ. state which believes another member state has breached its obligations has a which it is usually successful. Under Article 170 of the EC Treaty a member of a member state to comply with its EEC environmental obligations, in frequent route is under Article 169 of the EC Treaty, and since 1980 the EC judicial institution of the EC and is required to ensure that in the interpreta-Commission has brought more than 40 cases to the ECJ alleging the failure Court and/or the Court of First Instance in a number of ways. The most tion and application of the EEC Treaty 'the law is observed'. 144 In 1988 a 4.3.6 European Court of Justice The European Court of Justice is the Court of First Instance was created. Environmental cases reach the European

Jurisdiction under Article 177, the 'preliminary reference procedure'. Under this provision the national courts of the EC member states may refer to the The ECI has also considered environmental questions on the basis of its have failed. 146 with a case after efforts by the Commission to achieve a friendly settlement ronmental issues. The European Court has jurisdiction over all cases concerning jurisdiction over environmental matters, although so far only the European man Rights and the Inter-American Court of Human Rights) may also have 4.3.7 Human Rights Courts The human rights courts established under jurisdiction or, failing that, with their consent.145 The Court may only deal the party or parties concerned by the case have accepted its compulsory the interpretation and application of the European Convention provided that Court of Human Rights appears to have had an opportunity to address envithe various regional human rights conventions (the European Court of Hu-

nated arbitration in accordance with Annex VII. 148 state which does not designate one of these means is deemed to have desigspecial arbitral tribunal (constituted in accordance with Annex VIII).147 A the ICJ; an arbitral tribunal (constituted in accordance with Annex VII); and a ratification or accession or at any time thereafter to choose one or more of the sion on compulsory dispute settlement, allowing states at the time of signature. 4.3.8 UNCLOS Part XV of the 1982 UNCLOS contains detailed provithe Law of the Sea (established in accordance with Annex VI of UNCLOS). following to decide disputes under UNCLOS: the International Tribunal for

existing arrangements, including the inadequate implementation by parties of address the compliance issue, the subject was clearly an important one for called upon to ensure 'the full and prompt implementation of legally binding 21 addresses some of the needs. The whole of the international community is mental organizations in the implementation process, and the existence of their obligations, the need to involve international institutions and environ-4.3.9 UNCED Whereas the 1972 Stockholm Conference did not really instruments", ¹⁴⁹ and parties to international agreements are instructed to "conimportant gaps in the dispute settlement mechanisms. Chapter 39 of Agenda UNCED, Agenda 21 goes a little further in recognizing the limitations of

Principles of international law

could be made available by the relevant Conferences of the Parties'. progress made in the implementation of environmental conventions which Development will 'consider, where appropriate, information regarding the implementation of Agenda 21 and capacity-building at the country, regional. tional environmental law,151 UNDP will play a lead role in support of the recognized. UNEP is called upon to promote the implementation of internadevelopment of such mechanisms. 150 The role of international institutions is ways in which international bodies might contribute towards the further implementation of international legal instruments' and consideration of the cient and practical reporting systems on the effective, full and prompt and prompt implementation', including through the establishment of 'effisider procedures and mechanisms to promote and review their effective, full interregional and global levels;152 and the UN Commission on Sustainable

upon to study and consider: With regard to dispute settlement, the international community is called

concerned, the identification, avoidance and settlement of international disputes in the field of sustainable development, duly taking into account existing bilateral and multilateral agreements for the settlement of such disputes, 153 United Nations system, to facilitate, where appropriate and agreed by the parties the broadening and strengthening of the capacity of mechanisms, inter alia in the

in the implementation of environmental conventions, which could be made and 'to consider, where appropriate, information regarding the progress made clude reviewing progress in the implementation of Agenda 21 commitments available by the relevant Conferences of the Parties'. 154 The functions of the UN Commission on Sustainable Development will in-

- (Great Britain v. United States), 1 Moore's International Arbitration Awards 755 (1893)
- Chapter 38, paras 38.42 to 38.44,
- Art. 1(vii) and Art. 1(2).
- Convention to Protect Birds Useful to Agriculture, Paris, 19 March 1902, IV IPE 1615.
- Convention destinee a assurer la conservation des diverses especes animales vivent a l'état sauvage en Afrique qui sont utiles a l'homme on inoffensive, London, 19 May 1900, IV IPE 1607.
- Treaty Relating to the Boundary Waters and Questions Arising Along the Boundary Between the United States and Canada, 11 January 1909, XI IPE 5704.
- Birds in the United States and Canada, Washington, 7 December 1916, IV IPE 1638. Convention Between the United States and Great Britain for the Protection of Migratory
- Convention on Nature Protection and Wild Life Preservation in the Western Hemisphere. Washington, 12 October 1940, 161 UNTS 193,
- 9 C.O. Sauer, 'Destructive exploitation in modern colonial expansion', International Geo-graphical Congress, Amsterdam, Vol. III, Sect. IIIC, 494. Ybk UN 1948-9, 481-2.
- UN General Assembly resolution 900(IX) 14 December 1954. The Conference Report is at VIII IPE 3969

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UN General Assembly resolution 912(2), 3 December 1955

4 Water, Moscow, 5 August 1963, 480 UNTS 43. Treaty Battning Nuclear Weapon Tests in the Atmosphere, in Outer Space and Under

15 Nuclear Test Cases (Australia v. France), 1974 ICI Repu xxx; (New Zealand v. France).

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- Para. 39.7.
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