

**1996 PROTOCOL TO THE CONVENTION ON THE PREVENTION OF MARINE POLLUTION BY DUMPING OF WASTES AND OTHER MATTER, 1972**

**THE CONTRACTING PARTIES TO THIS PROTOCOL,**

STRESSING the need to protect the marine environment and to promote the sustainable use and conservation of marine resources,

NOTING in this regard the achievements within the framework of the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 and especially the evolution towards approaches based on precaution and prevention,

NOTING FURTHER the contribution in this regard by complementary regional and national instruments which aim to protect the marine environment and which take account of specific circumstances and needs of those regions and States,

REAFFIRMING the value of a global approach to these matters and in particular the importance of continuing co-operation and collaboration between Contracting Parties in implementing the Convention and the Protocol,

RECOGNIZING that it may be desirable to adopt, on a national or regional level, more stringent measures with respect to prevention and elimination of pollution of the marine environment from dumping at sea than are provided for in international conventions or other types of agreements with a global scope,

TAKING INTO ACCOUNT relevant international agreements and actions, especially the United Nations Convention on the Law of the Sea, 1982, the Rio Declaration on Environment and Development and Agenda 21,

RECOGNIZING ALSO the interests and capacities of developing States and in particular small island developing States,

BEING CONVINCED that further international action to prevent, reduce and where practicable eliminate pollution of the sea caused by dumping can and must be taken without delay to protect and preserve the marine environment and to manage human activities in such a manner that the marine ecosystem will continue to sustain the legitimate uses of the sea and will continue to meet the needs of present and future generations,

HAVE AGREED as follows:

## ARTICLE 1

### DEFINITIONS

For the purposes of this Protocol:

- 1 "Convention" means the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972, as amended.
- 2 "Organization" means the International Maritime Organization.
- 3 "Secretary-General" means the Secretary-General of the Organization.
- 4 .1 "Dumping" means:
  - .1 any deliberate disposal into the sea of wastes or other matter from vessels, aircraft, platforms or other man-made structures at sea;
  - .2 any deliberate disposal into the sea of vessels, aircraft, platforms or other man-made structures at sea;
  - .3 any storage of wastes or other matter in the seabed and the subsoil thereof from vessels, aircraft, platforms or other man-made structures at sea; and
  - .4 any abandonment or toppling at site of platforms or other man-made structures at sea, for the sole purpose of deliberate disposal.
- .2 "Dumping" does not include:
  - .1 the disposal into the sea of wastes or other matter incidental to, or derived from the normal operations of vessels, aircraft, platforms or other man-made structures at sea and their equipment, other than wastes or other matter transported by or to vessels, aircraft, platforms or other man-made structures at sea, operating for the purpose of disposal of such matter or derived from the treatment of such wastes or other matter on such vessels, aircraft, platforms or other man-made structures;
  - .2 placement of matter for a purpose other than the mere disposal thereof, provided that such placement is not contrary to the aims of this Protocol; and
  - .3 notwithstanding paragraph 4.1.4, abandonment in the sea of matter (e.g., cables, pipelines and marine research devices) placed for a purpose other than the mere disposal thereof.
- .3 The disposal or storage of wastes or other matter directly arising from, or related to the exploration, exploitation and associated off-shore processing of seabed mineral resources is not covered by the provisions of this Protocol.
- 5 .1 "Incineration at sea" means the combustion on board a vessel, platform or other man-made structure at sea of wastes or other matter for the purpose of their deliberate disposal by thermal destruction.

- .2 "Incineration at sea" does not include the incineration of wastes or other matter on board a vessel, platform, or other man-made structure at sea if such wastes or other matter were generated during the normal operation of that vessel, platform or other man-made structure at sea.
- 6 "Vessels and aircraft" means waterborne or airborne craft of any type whatsoever. This expression includes air-cushioned craft and floating craft, whether self-propelled or not.
- 7 "Sea" means all marine waters other than the internal waters of States, as well as the seabed and the subsoil thereof; it does not include sub-seabed repositories accessed only from land.
- 8 "Wastes or other matter" means material and substance of any kind, form or description.
- 9 "Permit" means permission granted in advance and in accordance with relevant measures adopted pursuant to article 4.1.2 or 8.2.
- 10 "Pollution" means the introduction, directly or indirectly, by human activity, of wastes or other matter into the sea which results or is likely to result in such deleterious effects as harm to living resources and marine ecosystems, hazards to human health, hindrance to marine activities, including fishing and other legitimate uses of the sea, impairment of quality for use of sea water and reduction of amenities.

## **ARTICLE 2**

### **OBJECTIVES**

Contracting Parties shall individually and collectively protect and preserve the marine environment from all sources of pollution and take effective measures, according to their scientific, technical and economic capabilities, to prevent, reduce and where practicable eliminate pollution caused by dumping or incineration at sea of wastes or other matter. Where appropriate, they shall harmonize their policies in this regard.

## **ARTICLE 3**

### **GENERAL OBLIGATIONS**

- 1 In implementing this Protocol, Contracting Parties shall apply a precautionary approach to environmental protection from dumping of wastes or other matter whereby appropriate preventative measures are taken when there is reason to believe that wastes or other matter introduced into the marine environment are likely to cause harm even when there is no conclusive evidence to prove a causal relation between inputs and their effects.
- 2 Taking into account the approach that the polluter should, in principle, bear the cost of pollution, each Contracting Party shall endeavour to promote practices whereby those it has authorized to engage in dumping or incineration at sea bear the cost of meeting the pollution prevention and control requirements for the authorized activities, having due regard to the public interest.

- 3 In implementing the provisions of this Protocol, Contracting Parties shall act so as not to transfer, directly or indirectly, damage or likelihood of damage from one part of the environment to another or transform one type of pollution into another.
- 4 No provision of this Protocol shall be interpreted as preventing Contracting Parties from taking, individually or jointly, more stringent measures in accordance with international law with respect to the prevention, reduction and where practicable elimination of pollution.

#### **ARTICLE 4**

##### **DUMPING OF WASTES OR OTHER MATTER**

- 1 .1 Contracting Parties shall prohibit the dumping of any wastes or other matter with the exception of those listed in Annex 1.
- .2 The dumping of wastes or other matter listed in Annex 1 shall require a permit. Contracting Parties shall adopt administrative or legislative measures to ensure that issuance of permits and permit conditions comply with provisions of Annex 2. Particular attention shall be paid to opportunities to avoid dumping in favour of environmentally preferable alternatives.
- 2 No provision of this Protocol shall be interpreted as preventing a Contracting Party from prohibiting, insofar as that Contracting Party is concerned, the dumping of wastes or other matter mentioned in Annex 1. That Contracting Party shall notify the Organization of such measures.

#### **ARTICLE 5**

##### **INCINERATION AT SEA**

Contracting Parties shall prohibit incineration at sea of wastes or other matter.

#### **ARTICLE 6**

##### **EXPORT OF WASTES OR OTHER MATTER**

Contracting Parties shall not allow the export of wastes or other matter to other countries for dumping or incineration at sea.

#### **ARTICLE 7**

##### **INTERNAL WATERS**

- 1 Notwithstanding any other provision of this Protocol, this Protocol shall relate to internal waters only to the extent provided for in paragraphs 2 and 3.

- 2 Each Contracting Party shall at its discretion either apply the provisions of this Protocol or adopt other effective permitting and regulatory measures to control the deliberate disposal of wastes or other matter in marine internal waters where such disposal would be "dumping" or "incineration at sea" within the meaning of article 1, if conducted at sea.
- 3 Each Contracting Party should provide the Organization with information on legislation and institutional mechanisms regarding implementation, compliance and enforcement in marine internal waters. Contracting Parties should also use their best efforts to provide on a voluntary basis summary reports on the type and nature of the materials dumped in marine internal waters.

## **ARTICLE 8**

### **EXCEPTIONS**

- 1 The provisions of articles 4.1 and 5 shall not apply when it is necessary to secure the safety of human life or of vessels, aircraft, platforms or other man-made structures at sea in cases of force majeure caused by stress of weather, or in any case which constitutes a danger to human life or a real threat to vessels, aircraft, platforms or other man-made structures at sea, if dumping or incineration at sea appears to be the only way of averting the threat and if there is every probability that the damage consequent upon such dumping or incineration at sea will be less than would otherwise occur. Such dumping or incineration at sea shall be conducted so as to minimize the likelihood of damage to human or marine life and shall be reported forthwith to the Organization.
- 2 A Contracting Party may issue a permit as an exception to articles 4.1 and 5, in emergencies posing an unacceptable threat to human health, safety, or the marine environment and admitting of no other feasible solution. Before doing so the Contracting Party shall consult any other country or countries that are likely to be affected and the Organization which, after consulting other Contracting Parties, and competent international organizations as appropriate, shall, in accordance with article 18.6 promptly recommend to the Contracting Party the most appropriate procedures to adopt. The Contracting Party shall follow these recommendations to the maximum extent feasible consistent with the time within which action must be taken and with the general obligation to avoid damage to the marine environment and shall inform the Organization of the action it takes. The Contracting Parties pledge themselves to assist one another in such situations.
- 3 Any Contracting Party may waive its rights under paragraph 2 at the time of, or subsequent to ratification of, or accession to this Protocol.

## **ARTICLE 9**

### **ISSUANCE OF PERMITS AND REPORTING**

- 1 Each Contracting Party shall designate an appropriate authority or authorities to:
  - .1 issue permits in accordance with this Protocol;

- .2 keep records of the nature and quantities of all wastes or other matter for which dumping permits have been issued and where practicable the quantities actually dumped and the location, time and method of dumping; and
  - .3 monitor individually, or in collaboration with other Contracting Parties and competent international organizations, the condition of the sea for the purposes of this Protocol.
- 2 The appropriate authority or authorities of a Contracting Party shall issue permits in accordance with this Protocol in respect of wastes or other matter intended for dumping or, as provided for in article 8.2, incineration at sea:
  - .1 loaded in its territory; and
  - .2 loaded onto a vessel or aircraft registered in its territory or flying its flag, when the loading occurs in the territory of a State not a Contracting Party to this Protocol.
- 3 In issuing permits, the appropriate authority or authorities shall comply with the requirements of article 4, together with such additional criteria, measures and requirements as they may consider relevant.
- 4 Each Contracting Party, directly or through a secretariat established under a regional agreement, shall report to the Organization and where appropriate to other Contracting Parties:
  - .1 the information specified in paragraphs 1.2 and 1.3;
  - .2 the administrative and legislative measures taken to implement the provisions of this Protocol, including a summary of enforcement measures; and
  - .3 the effectiveness of the measures referred to in paragraph 4.2 and any problems encountered in their application.

The information referred to in paragraphs 1.2 and 1.3 shall be submitted on an annual basis. The information referred to in paragraphs 4.2 and 4.3 shall be submitted on a regular basis.
- 5 Reports submitted under paragraphs 4.2 and 4.3 shall be evaluated by an appropriate subsidiary body as determined by the Meeting of Contracting Parties. This body will report its conclusions to an appropriate Meeting or Special Meeting of Contracting Parties.

## **ARTICLE 10**

### **APPLICATION AND ENFORCEMENT**

- 1 Each Contracting Party shall apply the measures required to implement this Protocol to all:
  - .1 vessels and aircraft registered in its territory or flying its flag;
  - .2 vessels and aircraft loading in its territory the wastes or other matter which are to be dumped or incinerated at sea; and

- .3 vessels, aircraft and platforms or other man-made structures believed to be engaged in dumping or incineration at sea in areas within which it is entitled to exercise jurisdiction in accordance with international law.
- 2 Each Contracting Party shall take appropriate measures in accordance with international law to prevent and if necessary punish acts contrary to the provisions of this Protocol.
- 3 Contracting Parties agree to co-operate in the development of procedures for the effective application of this Protocol in areas beyond the jurisdiction of any State, including procedures for the reporting of vessels and aircraft observed dumping or incinerating at sea in contravention of this Protocol.
- 4 This Protocol shall not apply to those vessels and aircraft entitled to sovereign immunity under international law. However, each Contracting Party shall ensure by the adoption of appropriate measures that such vessels and aircraft owned or operated by it act in a manner consistent with the object and purpose of this Protocol and shall inform the Organization accordingly.
- 5 A State may, at the time it expresses its consent to be bound by this Protocol, or at any time thereafter, declare that it shall apply the provisions of this Protocol to its vessels and aircraft referred to in paragraph 4, recognising that only that State may enforce those provisions against such vessels and aircraft.

## **ARTICLE 11**

### **COMPLIANCE PROCEDURES**

- 1 No later than two years after the entry into force of this Protocol, the Meeting of Contracting Parties shall establish those procedures and mechanisms necessary to assess and promote compliance with this Protocol. Such procedures and mechanisms shall be developed with a view to allowing for the full and open exchange of information, in a constructive manner.
- 2 After full consideration of any information submitted pursuant to this Protocol and any recommendations made through procedures or mechanisms established under paragraph 1, the Meeting of Contracting Parties may offer advice, assistance or co-operation to Contracting Parties and non-Contracting Parties.

## **ARTICLE 12**

### **REGIONAL CO-OPERATION**

In order to further the objectives of this Protocol, Contracting Parties with common interests to protect the marine environment in a given geographical area shall endeavour, taking into account characteristic regional features, to enhance regional co-operation including the conclusion of regional agreements consistent with this Protocol for the prevention, reduction and where practicable elimination of pollution caused by dumping or incineration at sea of wastes or other matter. Contracting Parties shall seek to co-operate with the parties to regional agreements in order to develop harmonized procedures to be followed by Contracting Parties to the different conventions concerned.

## ARTICLE 13

### TECHNICAL CO-OPERATION AND ASSISTANCE

- 1 Contracting Parties shall, through collaboration within the Organization and in co-ordination with other competent international organizations, promote bilateral and multilateral support for the prevention, reduction and where practicable elimination of pollution caused by dumping as provided for in this Protocol to those Contracting Parties that request it for:
  - .1 training of scientific and technical personnel for research, monitoring and enforcement, including as appropriate the supply of necessary equipment and facilities, with a view to strengthening national capabilities;
  - .2 advice on implementation of this Protocol;
  - .3 information and technical co-operation relating to waste minimization and clean production processes;
  - .4 information and technical co-operation relating to the disposal and treatment of waste and other measures to prevent, reduce and where practicable eliminate pollution caused by dumping; and
  - .5 access to and transfer of environmentally sound technologies and corresponding know-how, in particular to developing countries and countries in transition to market economies, on favourable terms, including on concessional and preferential terms, as mutually agreed, taking into account the need to protect intellectual property rights as well as the special needs of developing countries and countries in transition to market economies.
- 2 The Organization shall perform the following functions:
  - .1 forward requests from Contracting Parties for technical co-operation to other Contracting Parties, taking into account such factors as technical capabilities;
  - .2 co-ordinate requests for assistance with other competent international organizations, as appropriate; and
  - .3 subject to the availability of adequate resources, assist developing countries and those in transition to market economies, which have declared their intention to become Contracting Parties to this Protocol, to examine the means necessary to achieve full implementation.

## ARTICLE 14

### SCIENTIFIC AND TECHNICAL RESEARCH

- 1 Contracting Parties shall take appropriate measures to promote and facilitate scientific and technical research on the prevention, reduction and where practicable elimination of pollution by dumping and other sources of marine pollution relevant to this Protocol. In particular, such research should include observation, measurement, evaluation and analysis of pollution by scientific methods.

- 2 Contracting Parties shall, to achieve the objectives of this Protocol, promote the availability of relevant information to other Contracting Parties who request it on:
  - .1 scientific and technical activities and measures undertaken in accordance with this Protocol;
  - .2 marine scientific and technological programmes and their objectives; and
  - .3 the impacts observed from the monitoring and assessment conducted pursuant to article 9.1.3.

## **ARTICLE 15**

### **RESPONSIBILITY AND LIABILITY**

In accordance with the principles of international law regarding State responsibility for damage to the environment of other States or to any other area of the environment, the Contracting Parties undertake to develop procedures regarding liability arising from the dumping or incineration at sea of wastes or other matter.

## **ARTICLE 16**

### **SETTLEMENT OF DISPUTES**

- 1 Any disputes regarding the interpretation or application of this Protocol shall be resolved in the first instance through negotiation, mediation or conciliation, or other peaceful means chosen by parties to the dispute.
- 2 If no resolution is possible within twelve months after one Contracting Party has notified another that a dispute exists between them, the dispute shall be settled, at the request of a party to the dispute, by means of the Arbitral Procedure set forth in Annex 3, unless the parties to the dispute agree to use one of the procedures listed in paragraph 1 of Article 287 of the 1982 United Nations Convention on the Law of the Sea. The parties to the dispute may so agree, whether or not they are also States Parties to the 1982 United Nations Convention on the Law of the Sea.
- 3 In the event an agreement to use one of the procedures listed in paragraph 1 of Article 287 of the 1982 United Nations Convention on the Law of the Sea is reached, the provisions set forth in Part XV of that Convention that are related to the chosen procedure would also apply, *mutatis mutandis*.
- 4 The twelve month period referred to in paragraph 2 may be extended for another twelve months by mutual consent of the parties concerned.
- 5 Notwithstanding paragraph 2, any State may, at the time it expresses its consent to be bound by this Protocol, notify the Secretary-General that, when it is a party to a dispute about the interpretation or application of article 3.1 or 3.2, its consent will be required before the dispute may be settled by means of the Arbitral Procedure set forth in Annex 3.

## **ARTICLE 17**

### **INTERNATIONAL CO-OPERATION**

Contracting Parties shall promote the objectives of this Protocol within the competent international organizations.

## **ARTICLE 18**

### **MEETINGS OF CONTRACTING PARTIES**

- 1 Meetings of Contracting Parties or Special Meetings of Contracting Parties shall keep under continuing review the implementation of this Protocol and evaluate its effectiveness with a view to identifying means of strengthening action, where necessary, to prevent, reduce and where practicable eliminate pollution caused by dumping and incineration at sea of wastes or other matter. To these ends, Meetings of Contracting Parties or Special Meetings of Contracting Parties may:
  - .1 review and adopt amendments to this Protocol in accordance with articles 21 and 22;
  - .2 establish subsidiary bodies, as required, to consider any matter with a view to facilitating the effective implementation of this Protocol;
  - .3 invite appropriate expert bodies to advise the Contracting Parties or the Organization on matters relevant to this Protocol;
  - .4 promote co-operation with competent international organizations concerned with the prevention and control of pollution;
  - .5 consider the information made available pursuant to article 9.4;
  - .6 develop or adopt, in consultation with competent international organizations, procedures referred to in article 8. 2, including basic criteria for determining exceptional and emergency situations, and procedures for consultative advice and the safe disposal of matter at sea in such circumstances;
  - .7 consider and adopt resolutions; and
  - .8 consider any additional action that may be required.
- 2 The Contracting Parties at their first Meeting shall establish rules of procedure as necessary.

## **ARTICLE 19**

### **DUTIES OF THE ORGANIZATION**

- 1 The Organization shall be responsible for Secretariat duties in relation to this Protocol. Any Contracting Party to this Protocol not being a member of this Organization shall make an appropriate contribution to the expenses incurred by the Organization in performing these duties.

- 2 Secretariat duties necessary for the administration of this Protocol include:
- .1 convening Meetings of Contracting Parties once per year, unless otherwise decided by Contracting Parties, and Special Meetings of Contracting Parties at any time on the request of two-thirds of the Contracting Parties;
  - .2 providing advice on request on the implementation of this Protocol and on guidance and procedures developed thereunder;
  - .3 considering enquiries by, and information from Contracting Parties, consulting with them and with the competent international organizations, and providing recommendations to Contracting Parties on questions related to, but not specifically covered by, this Protocol;
  - .4 preparing and assisting, in consultation with Contracting Parties and the competent international organizations, in the development and implementation of procedures referred to in article 18.6.;
  - .5 conveying to the Contracting Parties concerned all notifications received by the Organization in accordance with this Protocol; and
  - .6 preparing, every two years, a budget and a financial account for the administration of this Protocol which shall be distributed to all Contracting Parties.
- 3 The Organization shall, subject to the availability of adequate resources, in addition to the requirements set out in article 13.2.3.
- .1 collaborate in assessments of the state of the marine environment; and
  - .2 co- operate with competent international organizations concerned with the prevention and control of pollution.

## **ARTICLE 20**

### **ANNEXES**

Annexes to this Protocol form an integral part of this Protocol.

## **ARTICLE 21**

### **AMENDMENT OF THE PROTOCOL**

- 1 Any Contracting Party may propose amendments to the articles of this Protocol. The text of a proposed amendment shall be communicated to Contracting Parties by the Organization at least six months prior to its consideration at a Meeting of Contracting Parties or a Special Meeting of Contracting Parties.
- 2 Amendments to the articles of this Protocol shall be adopted by a two-thirds majority vote of the Contracting Parties which are present and voting at the Meeting of Contracting Parties or Special Meeting of Contracting Parties designated for this purpose.

- 3 An amendment shall enter into force for the Contracting Parties which have accepted it on the sixtieth day after two-thirds of the Contracting Parties shall have deposited an instrument of acceptance of the amendment with the Organization. Thereafter the amendment shall enter into force for any other Contracting Party on the sixtieth day after the date on which that Contracting Party has deposited its instrument of acceptance of the amendment.
- 4 The Secretary-General shall inform Contracting Parties of any amendments adopted at Meetings of Contracting Parties and of the date on which such amendments enter into force generally and for each Contracting Party.
- 5 After entry into force of an amendment to this Protocol, any State that becomes a Contracting Party to this Protocol shall become a Contracting Party to this Protocol as amended, unless two-thirds of the Contracting Parties present and voting at the Meeting or Special Meeting of Contracting Parties adopting the amendment agree otherwise.

## **ARTICLE 22**

### **AMENDMENT OF THE ANNEXES**

- 1 Any Contracting Party may propose amendments to the Annexes to this Protocol. The text of a proposed amendment shall be communicated to Contracting Parties by the Organization at least six months prior to its consideration at a Meeting of Contracting Parties or Special Meeting of Contracting Parties.
- 2 Amendments to the Annexes other than Annex 3 will be based on scientific or technical considerations and may take into account legal, social and economic factors as appropriate. Such amendments shall be adopted by a two-thirds majority vote of the Contracting Parties present and voting at a Meeting of Contracting Parties or Special Meeting of Contracting Parties designated for this purpose.
- 3 The Organization shall without delay communicate to Contracting Parties amendments to the Annexes that have been adopted at a Meeting of Contracting Parties or Special Meeting of Contracting Parties.
- 4 Except as provided in paragraph 7, amendments to the Annexes shall enter into force for each Contracting Party immediately on notification of its acceptance to the Organization or 100 days after the date of their adoption at a Meeting of Contracting Parties, if that is later, except for those Contracting Parties which before the end of the 100 days make a declaration that they are not able to accept the amendment at that time. A Contracting Party may at any time substitute an acceptance for a previous declaration of objection and the amendment previously objected to shall thereupon enter into force for that Contracting Party.
- 5 The Secretary-General shall without delay notify Contracting Parties of instruments of acceptance or objection deposited with the Organization.
- 6 A new Annex or an amendment to an Annex which is related to an amendment to the articles of this Protocol shall not enter into force until such time as the amendment to the articles of this Protocol enters into force.

- 7 With regard to amendments to Annex 3 concerning the Arbitral Procedure and with regard to the adoption and entry into force of new Annexes the procedures on amendments to the articles of this Protocol shall apply.

### **ARTICLE 23**

#### **RELATIONSHIP BETWEEN THE PROTOCOL AND THE CONVENTION**

This Protocol will supersede the Convention as between Contracting Parties to this Protocol which are also Parties to the Convention.

### **ARTICLE 24**

#### **SIGNATURE, RATIFICATION, ACCEPTANCE, APPROVAL AND ACCESSION**

- 1 This Protocol shall be open for signature by any State at the Headquarters of the Organization from 1 April 1997 to 31 March 1998 and shall thereafter remain open for accession by any State.
- 2 States may become Contracting Parties to this Protocol by:
- .1 signature not subject to ratification, acceptance or approval; or
  - .2 signature subject to ratification, acceptance or approval, followed by ratification, acceptance or approval; or
  - .3 accession.
- 3 Ratification, acceptance, approval or accession shall be effected by the deposit of an instrument to that effect with the Secretary-General.

### **ARTICLE 25**

#### **ENTRY INTO FORCE**

- 1 This Protocol shall enter into force on the thirtieth day following the date on which:
- .1 at least 26 States have expressed their consent to be bound by this Protocol in accordance with article 24; and
  - .2 at least 15 Contracting Parties to the Convention are included in the number of States referred to in paragraph 1.1.
- 2 For each State that has expressed its consent to be bound by this Protocol in accordance with article 24 following the date referred to in paragraph 1, this Protocol shall enter into force on the thirtieth day after the date on which such State expressed its consent.

## **ARTICLE 26**

### **TRANSITIONAL PERIOD**

- 1 Any State that was not a Contracting Party to the Convention before 31 December 1996 and that expresses its consent to be bound by this Protocol prior to its entry into force or within five years after its entry into force may, at the time it expresses its consent, notify the Secretary-General that, for reasons described in the notification, it will not be able to comply with specific provisions of this Protocol other than those provided in paragraph 2, for a transitional period that shall not exceed that described in paragraph 4.
- 2 No notification made under paragraph 1 shall affect the obligations of a Contracting Party to this Protocol with respect to incineration at sea or the dumping of radioactive wastes or other radioactive matter.
- 3 Any Contracting Party to this Protocol that has notified the Secretary-General under paragraph 1 that, for the specified transitional period, it will not be able to comply, in part or in whole, with article 4.1 or article 9 shall nonetheless during that period prohibit the dumping of wastes or other matter for which it has not issued a permit, use its best efforts to adopt administrative or legislative measures to ensure that issuance of permits and permit conditions comply with the provisions of Annex 2, and notify the Secretary-General of any permits issued.
- 4 Any transitional period specified in a notification made under paragraph 1 shall not extend beyond five years after such notification is submitted.
- 5 Contracting Parties that have made a notification under paragraph 1 shall submit to the first Meeting of Contracting Parties occurring after deposit of their instrument of ratification, acceptance, approval or accession a programme and timetable to achieve full compliance with this Protocol, together with any requests for relevant technical co-operation and assistance in accordance with article 13 of this Protocol.
- 6 Contracting Parties that have made a notification under paragraph 1 shall establish procedures and mechanisms for the transitional period to implement and monitor submitted programmes designed to achieve full compliance with this Protocol. A report on progress toward compliance shall be submitted by such Contracting Parties to each Meeting of Contracting Parties held during their transitional period for appropriate action.

## **ARTICLE 27**

### **WITHDRAWAL**

- 1 Any Contracting Party may withdraw from this Protocol at any time after the expiry of two years from the date on which this Protocol enters into force for that Contracting Party.
- 2 Withdrawal shall be effected by the deposit of an instrument of withdrawal with the Secretary-General.
- 3 A withdrawal shall take effect one year after receipt by the Secretary-General of the instrument of withdrawal or such longer period as may be specified in that instrument.

## **ARTICLE 28**

### **DEPOSITARY**

- 1 This Protocol shall be deposited with the Secretary-General.
- 2 In addition to the functions specified in articles 10.5, 16.5, 21.4, 22.5 and 26.5, the Secretary-General shall:
  - .1 inform all States which have signed this Protocol or acceded thereto of:
    - .1 each new signature or deposit of an instrument of ratification, acceptance, approval or accession, together with the date thereof;
    - .2 the date of entry into force of this Protocol; and
    - .3 the deposit of any instrument of withdrawal from this Protocol together with the date on which it was received and the date on which the withdrawal takes effect;
  - .2 transmit certified copies of this Protocol to all States which have signed this Protocol or acceded thereto.
- 3 As soon as this Protocol enters into force, a certified true copy thereof shall be transmitted by the Secretary-General to the Secretariat of the United Nations for registration and publication in accordance with Article 102 of the Charter of the United Nations.

## **ARTICLE 29**

### **AUTHENTIC TEXTS**

This Protocol is established in a single original in the Arabic, Chinese, English, French, Russian and Spanish languages, each text being equally authentic.

IN WITNESS WHEREOF the undersigned being duly authorized by their respective Governments for that purpose have signed this Protocol.

DONE AT LONDON, this seventh day of November, one thousand nine hundred and ninety-six.

## ANNEX 1

### WASTES OR OTHER MATTER THAT MAY BE CONSIDERED FOR DUMPING

- 1 The following wastes or other matter are those that may be considered for dumping being mindful of the Objectives and General Obligations of this Protocol set out in articles 2 and 3:
  - .1 dredged material;
  - .2 sewage sludge;
  - .3 fish waste, or material resulting from industrial fish processing operations;
  - .4 vessels and platforms or other man-made structures at sea;
  - .5 inert, inorganic geological material;
  - .6 organic material of natural origin; and
  - .7 bulky items primarily comprising iron, steel, concrete and similarly unarmful materials for which the concern is physical impact, and limited to those circumstances where such wastes are generated at locations, such as small islands with isolated communities, having no practicable access to disposal options other than dumping.
- 2 The wastes or other matter listed in paragraphs 1.4 and 1.7 may be considered for dumping, provided that material capable of creating floating debris or otherwise contributing to pollution of the marine environment has been removed to the maximum extent and provided that the material dumped poses no serious obstacle to fishing or navigation.
- 3 Notwithstanding the above, materials listed in paragraphs 1.1 to 1.7 containing levels of radioactivity greater than *de minimis* (exempt) concentrations as defined by the IAEA and adopted by Contracting Parties, shall not be considered eligible for dumping; provided further that within 25 years of 20 February 1994, and at each 25 year interval thereafter, Contracting Parties shall complete a scientific study relating to all radioactive wastes and other radioactive matter other than high level wastes or matter, taking into account such other factors as Contracting Parties consider appropriate and shall review the prohibition on dumping of such substances in accordance with the procedures set forth in article 22.

## ANNEX 2

### ASSESSMENT OF WASTES OR OTHER MATTER THAT MAY BE CONSIDERED FOR DUMPING

#### GENERAL

- 1 The acceptance of dumping under certain circumstances shall not remove the obligations under this Annex to make further attempts to reduce the necessity for dumping.

#### WASTE PREVENTION AUDIT

- 2 The initial stages in assessing alternatives to dumping should, as appropriate, include an evaluation of:
  - .1 types, amounts and relative hazard of wastes generated;
  - .2 details of the production process and the sources of wastes within that process; and
  - .3 feasibility of the following waste reduction/prevention techniques:
    - .1 product reformulation;
    - .2 clean production technologies;
    - .3 process modification;
    - .4 input substitution; and
    - .5 on-site, closed-loop recycling.
- 3 In general terms, if the required audit reveals that opportunities exist for waste prevention at source, an applicant is expected to formulate and implement a waste prevention strategy, in collaboration with relevant local and national agencies, which includes specific waste reduction targets and provision for further waste prevention audits to ensure that these targets are being met. Permit issuance or renewal decisions shall assure compliance with any resulting waste reduction and prevention requirements.
- 4 For dredged material and sewage sludge, the goal of waste management should be to identify and control the sources of contamination. This should be achieved through implementation of waste prevention strategies and requires collaboration between the relevant local and national agencies involved with the control of point and non-point sources of pollution. Until this objective is met, the problems of contaminated dredged material may be addressed by using disposal management techniques at sea or on land.

## CONSIDERATION OF WASTE MANAGEMENT OPTIONS

- 5 Applications to dump wastes or other matter shall demonstrate that appropriate consideration has been given to the following hierarchy of waste management options, which implies an order of increasing environmental impact:
- .1 re-use;
  - .2 off-site recycling;
  - .3 destruction of hazardous constituents;
  - .4 treatment to reduce or remove the hazardous constituents; and
  - .5 disposal on land, into air and in water.
- 6 A permit to dump wastes or other matter shall be refused if the permitting authority determines that appropriate opportunities exist to re-use, recycle or treat the waste without undue risks to human health or the environment or disproportionate costs. The practical availability of other means of disposal should be considered in the light of a comparative risk assessment involving both dumping and the alternatives.

## CHEMICAL, PHYSICAL AND BIOLOGICAL PROPERTIES

- 7 A detailed description and characterization of the waste is an essential precondition for the consideration of alternatives and the basis for a decision as to whether a waste may be dumped. If a waste is so poorly characterized that proper assessment cannot be made of its potential impacts on human health and the environment, that waste shall not be dumped.
- 8 Characterization of the wastes and their constituents shall take into account:
- .1 origin, total amount, form and average composition;
  - .2 properties: physical, chemical, biochemical and biological;
  - .3 toxicity;
  - .4 persistence: physical, chemical and biological; and
  - .5 accumulation and biotransformation in biological materials or sediments.

## ACTION LIST

- 9 Each Contracting Party shall develop a national Action List to provide a mechanism for screening candidate wastes and their constituents on the basis of their potential effects on human health and the marine environment. In selecting substances for consideration in an Action List, priority shall be given to toxic, persistent and bioaccumulative substances from anthropogenic sources (e.g., cadmium, mercury, organohalogens, petroleum hydrocarbons, and, whenever relevant, arsenic, lead, copper, zinc, beryllium, chromium, nickel and vanadium, organosilicon compounds, cyanides, fluorides and pesticides or their by-products other than organohalogens). An Action List can also be used as a trigger mechanism for further waste prevention considerations.

- 10 An Action List shall specify an upper level and may also specify a lower level. The upper level should be set so as to avoid acute or chronic effects on human health or on sensitive marine organisms representative of the marine ecosystem. Application of an Action List will result in three possible categories of waste:
- .1 wastes which contain specified substances, or which cause biological responses, exceeding the relevant upper level shall not be dumped, unless made acceptable for dumping through the use of management techniques or processes;
  - .2 wastes which contain specified substances, or which cause biological responses, below the relevant lower levels should be considered to be of little environmental concern in relation to dumping; and
  - .3 wastes which contain specified substances, or which cause biological responses, below the upper level but above the lower level require more detailed assessment before their suitability for dumping can be determined.

#### DUMP-SITE SELECTION

- 11 Information required to select a dump-site shall include:
- .1 physical, chemical and biological characteristics of the water-column and the seabed;
  - .2 location of amenities, values and other uses of the sea in the area under consideration;
  - .3 assessment of the constituent fluxes associated with dumping in relation to existing fluxes of substances in the marine environment; and
  - .4 economic and operational feasibility.

#### ASSESSMENT OF POTENTIAL EFFECTS

- 12 Assessment of potential effects should lead to a concise statement of the expected consequences of the sea or land disposal options, i.e., the "Impact Hypothesis". It provides a basis for deciding whether to approve or reject the proposed disposal option and for defining environmental monitoring requirements.
- 13 The assessment for dumping should integrate information on waste characteristics, conditions at the proposed dump-site(s), fluxes, and proposed disposal techniques and specify the potential effects on human health, living resources, amenities and other legitimate uses of the sea. It should define the nature, temporal and spatial scales and duration of expected impacts based on reasonably conservative assumptions.
- 14 An analysis of each disposal option should be considered in the light of a comparative assessment of the following concerns: human health risks, environmental costs, hazards, (including accidents), economics and exclusion of future uses. If this assessment reveals that adequate information is not available to determine the likely effects of the proposed disposal option then this option should not be considered further. In addition, if the interpretation of the comparative assessment shows the dumping option to be less preferable, a permit for dumping should not be given.

- 15 Each assessment should conclude with a statement supporting a decision to issue or refuse a permit for dumping.

#### MONITORING

- 16 Monitoring is used to verify that permit conditions are met - compliance monitoring - and that the assumptions made during the permit review and site selection process were correct and sufficient to protect the environment and human health - field monitoring. It is essential that such monitoring programmes have clearly defined objectives.

#### PERMIT AND PERMIT CONDITIONS

- 17 A decision to issue a permit should only be made if all impact evaluations are completed and the monitoring requirements are determined. The provisions of the permit shall ensure, as far as practicable, that environmental disturbance and detriment are minimized and the benefits maximized. Any permit issued shall contain data and information specifying:
- .1 the types and sources of materials to be dumped;
  - .2 the location of the dump-site(s);
  - .3 the method of dumping; and
  - .4 monitoring and reporting requirements.
- 18 Permits should be reviewed at regular intervals, taking into account the results of monitoring and the objectives of monitoring programmes. Review of monitoring results will indicate whether field programmes need to be continued, revised or terminated and will contribute to informed decisions regarding the continuance, modification or revocation of permits. This provides an important feedback mechanism for the protection of human health and the marine environment.

**RESOLUTION LP.1(1)**

**ON THE AMENDMENT TO INCLUDE CO<sub>2</sub> SEQUESTRATION IN SUB-SEABED  
GEOLOGICAL FORMATIONS IN ANNEX 1 TO THE LONDON PROTOCOL**

**(Adopted on 2 November 2006)**

THE FIRST MEETING OF CONTRACTING PARTIES TO THE 1996 PROTOCOL TO THE CONVENTION ON THE PREVENTION OF MARINE POLLUTION BY DUMPING OF WASTES AND OTHER MATTER 1972,

RECALLING the objectives of the 1996 Protocol to the London Convention ("London Protocol") that include the protection and preservation of the marine environment from all sources of pollution;

BEING SERIOUSLY CONCERNED by the implications for the marine environment of climate change and ocean acidification due to elevated concentrations of carbon dioxide in the atmosphere;

EMPHASIZING the need to further develop low carbon forms of energy;

CONSIDERING that carbon dioxide capture and sequestration is one of a portfolio of options to reduce levels of atmospheric carbon dioxide;

RECOGNIZING that carbon dioxide capture and sequestration represents an important interim solution;

RECOGNIZING ALSO that carbon dioxide capture and sequestration should not be considered as a substitute to other measures to reduce carbon dioxide emissions;

NOTING that regulating such action is within the scope of the London Protocol;

NOTING ALSO that, since the adoption of the London Protocol, developments in technology have made it possible to capture carbon dioxide from industrial and energy-related sources, transport it and inject it into sub-seabed geological formations for long-term isolation from the atmosphere;

NOTING FURTHER that this resolution is restricted solely to carbon dioxide sequestration in sub-seabed geological formations;

WELCOMING the work of the Consultative Meeting's Intersessional Legal and Related Issues Working Group on CO<sub>2</sub> Sequestration and its conclusions, as set out in its report LC/CM-CO<sub>2</sub> 1/5;

WELCOMING ALSO the work of the Scientific Group's Intersessional Technical Working Group on CO<sub>2</sub> Sequestration and its conclusions, as set out in its report LC/SG-CO<sub>2</sub> 1/7;

WELCOMING FURTHER the work of the Intergovernmental Panel on Climate Change and in particular its Special Report on Carbon Capture and Storage;

DESIRING to regulate the sequestration of captured carbon dioxide streams into sub-seabed geological formations to seek to ensure protection of the marine environment

DESIRING ALSO, to update the London Protocol in light of these objectives;

STRESSING that this amendment may not be interpreted as legitimizing the disposal of any other waste or other matter for the purpose of disposing of those other wastes or other matter;

RECOGNIZING that guidance informing Parties on the means by which sub-seabed geological sequestration of carbon dioxide can be conducted in a manner that is safe for the marine environment, over the long and short term, should be developed as soon as possible, and will, when finalized form an important part of the regulation of sub-seabed geological sequestration of carbon dioxide.

- 1 ADOPTS the following amendment to Annex 1 to the London Protocol, in accordance with Article 22 of the Protocol, as set out in the Annex to this resolution;
- 2 REQUESTS the Scientific Group of the London Protocol to develop specific guidance on the application of Annex 2 to the Protocol to carbon dioxide sequestration in sub-seabed geological formations for consideration, with a view to adopting it, at the 2nd Meeting of Contracting Parties, and to collaborate with the Scientific Group of the London Convention; and
- 3 INVITES Parties that issue permits to use, until specific guidance is completed, the best available guidance relevant to carbon dioxide sequestration in sub-seabed geological formations to ensure the protection of the marine environment, while also recognizing the requirements of Annex 2 to the London Protocol.

ANNEX

**AMENDMENT TO ANNEX 1 TO THE LONDON PROTOCOL**

1.8 Carbon dioxide streams from carbon dioxide capture processes for sequestration.

.....

4 Carbon dioxide streams referred to in paragraph 1.8 may only be considered for dumping, if:

- .1 disposal is into a sub-seabed geological formation; and
- .2 they consist overwhelmingly of carbon dioxide. They may contain incidental associated substances derived from the source material and the capture and sequestration processes used; and
- .3 no wastes or other matter are added for the purpose of disposing of those wastes or other matter.

In paragraph 3, replace "1.7" with "1.8", to take account of the new subparagraph 1.8.