



**Antarctic Treaty**  
XII Special Consultative Meeting

**Traité de l'Antarctique**  
XII<sup>e</sup> Réunion consultative spéciale

**Tratado Antártico**  
XII Reunión Consultiva Especial

**Антарктический Договор**  
XII Специальное Консультативное Собрание

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**Annual Report under the Protocol on  
Environmental Protection to the Antarctic  
Treaty**

Submitted by  
Japan

# ANNUAL REPORT UNDER THE PROTOCOL ON ENVIRONMENTAL PROTECTION TO THE ANTARCTIC TREATY

**JAPAN**  
**1999/2000 SEASON**

## **1 Notification pursuant to Article 17 of the Protocol on Environmental Protection to the Antarctic Treaty**

### **1-1 Notification of the measures taken pursuant to Article 13, paragraphs 1 and 2, of the Protocol**

A law enacting the Protocol in Japan, *the Law relating to Protection of the Environment in Antarctica (Antarctic Environment Law)* was promulgated in the gazette on 28<sup>th</sup> May 1997 and entered into force on 14th January 1998 at the same time the Protocol itself entered into force.

*The Cabinet Ordinance for enforcing the Antarctic Environment Law and the Prime Minister's Office Ordinance for enforcing the Antarctic Environment Law* was promulgated in the gazette from July to September 1997.

The instrument of acceptance of the protocol was received by the Government of the USA on December 15 1997.

The text of *the Antarctic Environment Law* is available from:

<<http://www.eic.or.jp/eanet/en/lar/antarctica/index.html>>

The Environment Agency of Japan published small pamphlet "Antarctica"(Japanese and English version), including outline of natural environment in Antarctica, procedures for visiting Antarctica and short history of Japanese Antarctic research.

### **1-2 Contingency plans established in accordance with Article 15 of the Protocol**

Syowa Station Oil Spill Contingency Plan has been finalised in 1996 according to the COMNAP guidelines. That plan (Japanese version) is available from:

Environmental Section  
National Institute of Polar Research  
1-9-10 Kaga, Itabashi-ku, Tokyo  
173-8515 JAPAN  
sano@nipr.ac.jp

## **2 Report pursuant to Annex I, Article 6 (1) of the Environmental Protocol**

### **2-1 Procedures to consider the environmental impacts of proposed activities in Antarctica (Annex I, Article 6 (1a))**

All activities in Antarctica are subjected to rigorous environmental impact assessment procedures. These procedures are in accordance with Annex I of the Environmental Protocol. Further information can be obtained at the following address:

Planning Division, Nature Conservation bureau  
Environment Agency  
1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo  
100-8975 JAPAN  
biodiv@eanet.go.jp

### **2-2 List of Initial Environmental Evaluations developed in accordance with Article 2 and decisions taken (Annex I, Article 6 (1b) and also ATCM Resolution 6 (1995))**

During the 1999/2000 season, following Initial Environmental Evaluation were prepared in accordance with Annex I, Article 2, of the Protocol on Environmental Protection to the Antarctic Treaty.

<b>Date of IEE</b>	<b>Brief description of the Development or Activity</b>	<b>Location of activity</b>	<b>Organization Responsible for the EIA</b>	<b>Decision taken following consideration of the EIA</b>
1999 September	Construction of station facility (construction of PV panels and wind turbine / reconstruction of heliport, summer lodges, waste storage / replacement of incinerator )	Syowa station 69°00'S, 39°35'E	National Institute of Polar Research	All the proposed activities were certificated by Director General of Environment Agency as having no more than a minor or transitory impact
1999 November	Construction of station facility (reconstruction of science laboratory)	Syowa station 69°00'S, 39°35'E	National Institute of Polar Research	All the proposed activities were certificated by Director General of Environment Agency as having no more than a minor or transitory impact

### **2-3 Significant information obtained, and any action taken in consequence thereof, from procedures put in place in accordance with Annex I, Articles 2(2) and 5, of the Protocol (Annex I, Article 6 (1c))**

During the 1999/2000 season, no significant information has been obtained from monitoring procedures put in place in accordance with the provisions of Annex I.

### **2-4 Information referred to in Article 3 (6) on Comprehensive Environmental Evaluations (Annex I, Article 6 (1d))**

During the 1999/2000 season, no draft CEEs or final CEEs have been prepared for Japanese activities in Antarctica.

### **3 Report pursuant to Annex II, Article 6 of the Environmental Protocol**

#### **3-1 Number and nature of permits issued under Annex II of the Protocol during the 1999/2000 season (Annex II, Article 6 (2) of the Protocol)**

The following permits were issued under Annex II of the Protocol during the 1999/2000 season.

<b>Date issued</b>	<b>Species</b>	<b>Location</b>	<b>Purpose</b>	<b>Number/ Amount permitted</b>	<b>Number/ Amount actually taken</b>
1999 Oct.14	Adelie penguin	Langhovde 69°13'S 39°38'E	Attaching data logger (catch and release)	300	163 (123 adults 40 juveniles)

### **4 Report pursuant to Annex III, Article 9 of the Environmental Protocol**

#### **4-1 Waste Management Plans Prepared in Accordance with Annex III, Article 8 of the Protocol (Annex III, Article 9 (1) of the Protocol)**

The Japanese Antarctic Research Expedition (JARE) introduced the Waste Management Plan to implement necessary operating procedures such as segregation, disposal and management of wastes after the Madrid Protocol was completed in 1991.

According to the plan, some combustible wastes are incinerated and sewage is treated by the biological treatment plant. The ash and the sludge are brought back to Japan. Other wastes are removed from Antarctic treaty area for proper disposal

Larger wastes such as oversnow vehicles and trucks stored at Syowa station are also back to Japan every year according to the five years clean up operation plan.

#### **4-2 Report on implementation of waste management plan (Annex III, Article 9 (1) of the Protocol)**

The Japanese Antarctic Research Expedition Waste Management Plan is implemented during the 1999/2000 season.

<b>Category and Type</b>	<b>Disposal method</b>	<b>Quantity</b>
<b>Group 1- Sewage and Domestic Liquids</b>		
Sewage (from summer accommodation)	Maceration and Sea	6 kl
Grey water (from summer accommodation)	Sea	340 kl

Sewage and Grey water (from winter accommodation)	Treatment process (Contact aeration process) and Sea	1700 kl
Group 2 - Other liquid chemicals □ waste (including fuels □ lubricants)		
Photographic chemicals	Removed from Treaty area	1.66 kl
Other liquid chemicals	Removed from Treaty area	0.02 kl
Lubricants	Removed from Treaty area	13.6 kl
Group 3 - Combustible wastes		
Paper products	Basic Incinerator	7.15 t
Corrugated carton	Removed from Treaty area	4.91 t
Untreated wood	Removed from Treaty area	15.94 t
Food scraps	Other (Carbonization system)	7.99 t
Polyurethane □ polystyrene foams	Removed from Treaty area	0.24 t
Other plastics	Removed from Treaty area	3.14 t
Rubber	Removed from Treaty area	0.85 t
Bedding, cloth	Removed from Treaty area	0.57 t
Clinical waste	Removed from Treaty area	0.12 t
Group 4 – Other solid wastes		
Glass	Removed from Treaty area	2.38 t
Metal cans	Removed from Treaty area	14.33 t
Aluminium	Removed from Treaty area	2.75 t
Building waste	Removed from Treaty area	31.47 t
Vehicles	Removed from Treaty area	28.7 t
Batteries	Removed from Treaty area	0.83 t
Non – liquid chemicals	Removed from Treaty area	0.11 t
Incinerator residue	Removed from Treaty area	4.46 t
Other solid wastes	Removed from Treaty area	69.39 t
Unopened waste food	Removed from Treaty area	1.4 t
Waste fluorescent light bulbs	Removed from Treaty area	0.15 t

\* Including lager wastes brought back according to the five years clean up operation plan.

## **5 Report pursuant to Annex V, Article 10 of the Environmental Protocol**

### **5-1 Number and nature of permits issued under Annex V of the Protocol during the 1999/2000 season (Annex V, Article 10 (2) of the Protocol)**

No permits under Annex V have been issued for the 1999/2000 season.

### **5-2 Summary descriptions of activities conducted in ASMA or ASPA (Annex V, Article 10 (3) of the Protocol)**

During the 1999/2000 season, Japan has not conducted any activities in ASMA or ASPA.

### **5-3 Measures taken to implement the provisions of Annex V (Annex V, Article 10 (4) of the Protocol)**

Implementation of Annex V is through national legislation (*Antarctic Environment Act*, see 1-1).

During the 1999/2000 season, Japan has not conducted any site inspections in protected area.