

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

**JAPAN**  
**2001/2002 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(Background information)**

A law that ensures implementation of 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 14<sup>th</sup> January 1998 at the same time the Protocol itself entered into force, in Japan.

*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 gazettes between July and 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.env.go.jp/en/lar/antarctica/index.html>>

Japan has been disseminating 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 was 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  
ishizawa@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:

Global Environment Issues Division, Global Environment Bureau  
Ministry of the Environment  
1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo  
100-8975 JAPAN  
antarctic@env.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 2001/2002 season, some Initial Environmental Evaluations(IEE) were prepared in accordance with Annex I, Article 2, of the Protocol on Environmental Protection to the Antarctic Treaty. The Annual list of IEE is provided in appended table.

### ***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 2001/2002 season, no significant information was obtained from monitoring procedures put in place in accordance with the provisions of Annex I of the Protocol.

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

During the 2001/2002 season, no draft CEEs or final CEEs was 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 2001/2002 season (Annex II, Article 6 (2) of the Protocol)***

The following permits were issued under Annex II of the Protocol during the 2001/2002 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>
2001 Sep.18	Adelie Penguin and Chinstrap Penguin	Vicinity of Signy Station (60° 43S, 45° 36E)	Attaching data logger (catch and release)	Adelie 355 Chinstrap 60	Adelie 227 Chinstrap 60

### **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 and grey water are treated by the biological treatment plant and its sludge is carbonized into charcoal. The ash, the charcoal and other wastes are brought back to Japan.

Larger wastes such as snow vehicles, trucks and building materials stored at Syowa Station are also brought back to Japan every year according to the 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 was implemented as follows during the 2001/2002 season.

Category and Type	Disposal method	Quantity
<b>Group 1- Sewage and Domestic Liquids</b>		
Sewage (from summer accommodation)	Maceration and discharge into Sea	63 kl
Grey water (from summer accommodation)	Ditto	504 kl
Sewage and Grey water (from winter accommodation)	Biological treatment (Contact aeration process) and discharge into Sea	1971 kl
Sludge	Carbonization	74kg
<b>Group 2- Other liquid chemicals &amp; waste (including fuels &amp; lubricants)</b>		
Photographic chemicals	Removed from Treaty area to Japan	2.24 kl
Other liquid chemicals	Removed from Treaty area to Japan	6.87 kl
Lubricants	Removed from Treaty area to Japan	4.81 kl
<b>Group 3- Combustible wastes</b>		
Paper products and wooden fragments	Incineration	4.13 t
Corrugated carton and books	Removed from Treaty area to Japan	3.15 t
Untreated wood	Removed from Treaty area to Japan	28.55 t
Food scraps	Carbonization	11.3 t
Polyurethane& polystyrene foams	Removed from Treaty area to Japan	0 t
Other plastics	Removed from Treaty area to Japan	4.39 t
Rubber	Removed from Treaty area to Japan	0.36 t
Bedding, cloth	Removed from Treaty area to Japan	1.54 t
Medical waste	Removed from Treaty area to Japan	0.29 t
<b>Group 4- Other solid wastes</b>		
Glass	Removed from Treaty area to Japan	4.83 t
Metal cans	Removed from Treaty area to Japan	13.18 t
Aluminium cans	Removed from Treaty area to Japan	1.90 t
Building waste	Removed from Treaty area to Japan	38.96 t
Vehicles	Removed from Treaty area to Japan	13.50 t
Batteries	Removed from Treaty area to Japan	2.29 t
Non – liquid chemicals	Removed from Treaty area to Japan	1.45 t
Incinerator ash	Removed from Treaty area to Japan	2.22 t
Carbonized charcoal	Removed from Treaty area to Japan	*4.46 t
Other solid wastes	Removed from Treaty area to Japan	28.91 t
Unopened waste food	Removed from Treaty area to Japan	4.70 t
Waste fluorescent light bulbs	Removed from Treaty area to Japan	0.11 t

\* including the charcoal of Sludge and Food scraps

## **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 2001/2002 season (Annex V, Article 10 (2) of the Protocol)***

The following permits were issued under Annex ? of the Protocol during the 2001/2002 season.

<b>Date issued</b>	<b>Name</b>	<b>Period</b>	<b>ASPA</b>	<b>Location</b>	<b>Purpose</b>
2001 Nov.9	<ul style="list-style-type: none"> <li>· Michinori Hashimoto</li> <li>· Katsue Nagai</li> <li>· Toshihiro Nakamura</li> <li>· Kuninori Negishi</li> <li>· Koji Yoshii</li> <li>· Hideki Kinoshita</li> <li>· Takuma Nosaka</li> <li>· Kenichi Matsuo</li> </ul>	2002 Feb.3 - 6 (four days)	Site of Special Scientific Interest No. 22 (SSSI22)	Yukidori Valley, Langhovde (69° 14S, 39° 44E)	Monitoring of terrestrial ecology

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

See 5-1 above.

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

Annex V is implemented in Japan through national legislation (*Antarctic Environment Act*, see 1-1).

During the 2001/2002 season, Japan did not conduct any site inspections in protected area.

## **6 Inventory of Past Activities in accordance with Annex ? , Article 8 (3) of the Environmental Protocol**

<b>Station Name</b>	<b>Type of Activity</b>	<b>Period of Occupation</b>	<b>Average level of Activity</b>	<b>Remnants &amp; Date last visited</b>	<b>Disposal plans &amp; dates</b>
Mizuho (70° 42S, 44° 20E)	Scientific observation	From July 1970 to present	4 times × 8 persons / yr	2002 summer	None planned
Asuka (71° 32S, 24° 08E)	Scientific observation	From January 1985 to present	Now temporarily closed	1991 winter	None planned
Dome Fuji (77° 19S, 39° 42E)	Scientific observation	From January 1995 to present	1 time × 10 persons / yr	2002 summer	None planned

**T a b l e****THE ANNUAL LIST OF IEE 2001/2002 ( JAPAN )**

Date	Location	Activity	Organization	Decision
2001.10	Syowa Station (39,35E? 69,00S)	· Installation and operation of 112 MHzVHF auroral Antenna	National Institute of Polar Research	All the proposed activities were certified by Minister of the environment as having no more than a minor or transitory impact.
		· Syowa Station summer construction work - electric power hut and cable laying		
		· Installation of a fuel tank and construction of solar photovoltaic panels, a pipeline of summer accommodation and a water pipeline of Aragane Dam		