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| Presented by:      | Japan   |
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**Annual Report pursuant to the Article 17 of  
the Protocol on Environmental Protection  
to the Antarctic Treaty  
Japan  
2005/2006 Season**

## **1. Notification pursuant to Article 13(1),(2) of the Protocol on Environmental Protection to the Antarctic Treaty**

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 28th May 1997 and entered into force on 14th 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 15th 1997. The text of the Antarctic Environment Law is available from:

<<http://www.env.go.jp/en/lar/antarctica/index.html>>

Japan distributes a pamphlet "Antarctica" and established website, including summary of procedures for visiting Antarctica, natural environment in Antarctica, and the history of Japanese Antarctic Research. The website is available from:

<[http://www.env.go.jp/earth/nankyoku/kankyohogo\\_en/index.html](http://www.env.go.jp/earth/nankyoku/kankyohogo_en/index.html)>

## **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:

Environment Planning Unit, Planning Section, Office of Polar Expeditions, National Institute of Polar Research(NIPR)  
1-9-10 Kaga, Itabashi-ku, Tokyo 173-8515, Japan  
tel : +81-3-3962-0548

## **3. Other notifications and information called for pursuant to the Protocol**

See the Annex.

**ANNEX****3-1. Report pursuant to Annex I, Article 6 (1) of the Environmental Protocol****3-1-1. Procedures to consider the environmental impacts of proposed activities in Antarctica (the Annex I, Article 6 (1a) of the Protocol)**

No person shall engage in any activity in Antarctica other than Antarctic Activities that has been certified by the Minister of the Environment as satisfying the conditions to protect the Environment in Antarctica in accordance with Annex I of the Environmental Protocol (We call this „Certification System”). This, however, does not apply to Specified Activities such as the sailing of ships or flying of aircraft etc.

※The summary of the Procedures of „Certification System”:

[http://www.env.go.jp/earth/nankyoku/kankyohogo\\_en/houmon\\_en/index.html](http://www.env.go.jp/earth/nankyoku/kankyohogo_en/houmon_en/index.html)

※Further information can be obtained at the following address:

Antarctic Section, Global Environment Issues Division, Global Environment Bureau  
Ministry of the Environment  
1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo, 100-8975 Japan  
tel : +81-3-3581-3351 / E-mail: [antarctic@env.go.jp](mailto:antarctic@env.go.jp)

**3-1-2. List of Initial Environmental Evaluations developed in accordance with Article 2 and decisions taken (Annex I, Article 6 (1b) of the Protocol and also ATCM Resolution 6 (1995))**

During the 2005/2006 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 following table.

| The title of the IEE   | Location                                   | Organization  | Date certificated | Decision under domestic law  |
|--|--|---|-------------------|--|
| IEE on the extension of the ground line of the Ionospheric Observation Building at Syowa station | Syowa Station<br>(69° 00' S,<br>39° 35' E) | The Director General of Japanese Antarctic Research Expedition (the Minister of Education, Culture, Sports, Science and Technology) | 15th Nov. 2005    | All the proposed activities were certified by Minister of the Environment as having no more than a minor or transitory impact. |
| IEE on coring the sediment deposited on seabed at Lutzow-Holm Bay                                |  |   |                   |  |
| IEE on the civil engineering and construction works at Syowa station                             |  |   |                   |  |
| IEE on the construction of the base at the point S17   |  |   |                   |  |
|  |  |   |                   |  |
|  |  |   |                   |  |

**3-1-3. 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 2005/2006 season, no significant information was obtained from procedures put in place in accordance with the provisions of Annex I of the Protocol.

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

During the 2005/2006 season, no draft CEEs or final CEEs was prepared for Japanese activities in Antarctica.

## 3-2. Report pursuant to Annex II, Article 6 of the Environmental Protocol

### 3-2-1. Steps taken pursuant to Annex II, Article 6(1) of the Protocol

The Ministry of the Environment obtains the information on Annex II, Article 6(1) of the Protocol through Certification System mentioned in the section 3-3-1.

### 3-2-2. Number and nature of permits issued under Annex II of the Protocol during the 2005/2006 season (Annex II, Article 6 (2) of the Protocol)

The following permits were issued under Annex II of the Protocol during the 2005/2006 season.

| Number and Nature of Permits issued under Annex II |  |  |  |   |  |                   |                              |
|--|--|--|--|---|--|-------------------|------------------------------|
| Number   | Species  | Contents   | Location   | Number/Amount permitted   | Supervisor   | Date certificated | Number/Amount actually taken |
| 1  | Sediments, mosses, algae and bacteria (Bryum pseudotriquetrum, Leptobryum pyriforme) | Sampling sediments and mosses for research on structure of the ecosystem of lakes on the Antarctica            | in and around the lakes at Soya Coast;   | Sediments: 10kg<br>Mosses, algae and bacteria: 3kg(in ASPA 1kg, the other area 2kg) | The Director General of Japanese Antarctic Research Expedition(the Minister of Education, Culture, Sports, Science and Technology) | 15th Nov. 2005    |                              |
| 2  | Sediments, mosses, algae and bacteria (Bryum pseudotriquetrum, Leptobryum pyriforme) | Sampling mosses for research on interaction between the change of continental ice sheets and vegetation around | Skarvsnes(69° 28' S, 39° 40' E)、Yukidori Valley, Langhovde(69° 14' S, 39° 43' E)、Skallen(69° 40' S, 39° 25' E)、Rundvagshetta(69° 53' S, 39° 19' E) | Mosses, algae and bacteria: 2kg(in ASPA 1kg, the other area 1kg)                    |  |                   |                              |
| 3  | Mosses, algae and bacteria (Bryum pseudotriquetrum, Leptobryum pyriforme)            | Sampling Mosses for long-term monitoring of the ecosystem of the lands in the Antarctica                       |  | Mosses, algae and bacteria: 1kg(in ASPA 1kg)  |  |                   |                              |
| 4  | Algae  | Sampling algae around the Syowa Station for the purpose of preparing the monitoring guideline                  | Syowa Station(69° 00' S, 39° 35' E)  | Algae 0.2kg   |  |                   | Algae 0.1kg                  |

### 3-3. Report pursuant to Annex III, Article 9 of the Environmental Protocol

#### 3-3-1. Waste Management Plans Prepared in Accordance with Annex III, Article 8(2) of the Protocol (Annex III, Article 9 (1) of the Protocol)

##### ( 1 ) Syowa Station

1. The Japanese Antarctic Research Expedition (JARE) introduced the Cord of Conduct about Waste Management(which is reffered in the „Directory of Syowa Station”) to implement necessary operating procedures such as segregation, disposal and management of wastes after the Madrid Protocol was completed in 1991.

According to the Cord of Conduct, 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.

2. 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 which is completely revised in 2004/5 season.

3.However, comprehensive waste management plan which fully meets the requirment pursuant to AnnexIII,Article 8 (2) ,(a)(b)(c)(d)of the Protocol is during preparation.

##### ( 2 ) Dome Fuji

JARE has not yet completed the Waste Management plan which fully meets the requirment pursuant to AnnexIII,Article 8 (2) ,(a)(b)(c)(d) with regards to Dome Fuji. Wastes produced from the present activities are disposed according to Antarctic Environment Law.

#### 3-3-2. Report on implementation of waste management plan (Annex III, Article 9 (1) of the Protocol)

The Japanese Antarctic Research Expedition brought wastes back to Japan as the appendix during the 2005/2006 season. Discription of wastes is following the waste disposal classification system pursuant to Annex III, Article 8(1) of the Protocol.

#### 3-3-3. Inventory of Past Activities in accordance with Annex III, Article 8 (3) of the Environmental Protocol (Annex III, Article 9 (1) of the Protocol)

| Station Name                        | Type of Activity       | Period of Occupation         | Average level of Activity | Remnants & Date last visited            | Disposal plans & dates |
|-------------------------------------|------------------------|------------------------------|---------------------------|---|------------------------|
| Mizuho<br>(70° 42' S,<br>44° 20' E) | Scientific observation | From July 1970 to present    | 4 times × 8 persons / yr  | 2005 summer                             | None planned           |
| Asuka<br>(71° 32' S,<br>24° 08' E)  | Scientific observation | From January 1985 to present | Now temporarily closed    | 2004 the end of Nov.~ beginning of Dec. | None planned           |

## APPENDIX List of wastes from Antarctica

| Category and Type  | Disposal method   | Quantity |
|--|---|----------|
| <b>Group 1 – Sewage and Domestic Liquids</b>   |   |          |
| Sewage (from summer accommodation)   | Diluted and discharged into Sea   | 800      |
| Sewage and Grey water (from winter accommodation)                                      | Biologically treated (Contact aeration process) and discharged into Sea | 2400     |
| Sludge   | Carbonized and brought back to Japan                                    | 1,500    |
| <b>Group 2 – Other liquid chemicals &amp; waste (including fuels &amp; lubricants)</b> |   |          |
| Photographic chemicals   | Removed and brought back to Japan                                       |          |
| Other liquid chemicals   | Removed and brought back to Japan                                       | 20       |
| Lubricants   | Removed and brought back to Japan                                       |          |
| Waste oil  | Removed and brought back to Japan                                       | 10,800   |
| <b>Group 3 – Combustible wastes</b>  |   |          |
| Paper products and wooden fragments  | Incinerated   |          |
| Corrugated carton and books  | Removed and brought back to Japan                                       | 40       |
| Untreated wood   | Removed and brought back to Japan                                       | 2,100    |
| Food scraps  | Carbonized and brought back to Japan                                    | 1,000    |
| Polyurethane & polystyrene foams & Other   | Removed and brought back to Japan                                       | 2,800    |
| Rubber   | Removed and brought back to Japan                                       | 50       |
| Bedding, cloth   | Removed and brought back to Japan                                       | 1,100    |
| Medical waste  | Removed and brought back to Japan                                       | 40       |
| <b>Group 4 – Other solid wastes</b>  |   |          |
| Glass  | Removed and brought back to Japan                                       | 1,100    |
| Metal cans   | Removed and brought back to Japan                                       | 2,000    |
| Aluminium cans   | Removed and brought back to Japan                                       | 1,600    |
| Building waste   | Removed and brought back to Japan                                       |          |
| Scrap iron   | Removed and brought back to Japan                                       | 90,400   |
| Aluminium foil   | Removed and brought back to Japan                                       |          |
| Vehicles   | Removed and brought back to Japan                                       | 22,700   |
| Batteries  | Removed and brought back to Japan                                       | 1,300    |
| Non – liquid chemicals   | Removed and brought back to Japan                                       |          |
| Incinerator ash  | Removed and brought back to Japan                                       | 2,800    |
| Charcoal made from food scrap  | Removed and brought back to Japan                                       | 2,700    |
| Other solid wastes   | Removed and brought back to Japan                                       | 59,600   |
| Unopened waste food  | Removed and brought back to Japan                                       | 80       |
| Waste fluorescent light bulbs  | Removed and brought back to Japan                                       |          |
| <b>Group 5 – Radioactive material</b>  |   |          |

### 3-4. Report pursuant to Annex V, Article 10 of the Protocol

#### 3-4-1. Number and nature of permits issued under Annex V of the Protocol during the 2005/2006 season (Annex V, Article 10 (2) of the Protocol)

The following permits were issued under Annex V of the Protocol during the 2005/2006 season.

| Activity Number | ASPA No. and Location   | Purpose   | Number of the person to whom the Ministry of the Environment issued the permissions | Period Permitted   | Date Permitted | Number of persons who actually entered into ASPA | Period actually entered        |
|-----------------|---|---|---|--|----------------|--|--------------------------------|
| 1               | ASPA No.141<br>Yukidori Valley,<br>Langhovde<br>(69° 14' S,<br>39° 43' E) | Reaserch(sampling mosses, algae and bacteria, etc )for the purpose of elucidating the ecosystem of the lakes in Antarctica. | 9(※)  | 50 days between 20th Dec. 2005 to 15th Feb. 2006                   | 15th Nov. 2005 | 4  | 22th Jan. 2006 ~ 3rd Feb. 2006 |
| 2               | ASPA No.141<br>Yukidori Valley,<br>Langhovde<br>(69° 14' S,<br>39° 43' E) | Long-term monitoring in the Antarctic Specially Protected Area No.141(Yukidori Valley, Langhovde)                           | 3   | 7 days between 20th Dec. 2005 to 15th Feb. 2006.                   | 15th Nov. 2005 | 2  | 22th Jan. 2006 ~ 3rd Feb. 2006 |
| 3               | ASPA No.141<br>Yukidori Valley,<br>Langhovde<br>(69° 14' S,<br>39° 43' E) | Research in the Antarctic Specially Protected Area No.141(Yukidori Valley, Langhovde)                                       | 15  | Bbetween the beginning of Dec. 2005 to the beginning of Feb. 2006. | 15th Nov. 2005 | 2  | 22th Jan. 2006 ~ 3rd Feb. 2006 |

※Permission is issued to each person who participate in the Antarctic Activities in which the permission under Annex V is needed.

#### 3-4-2. Summary descriptions of activities conducted in ASMA or ASPA (Annex V, Article 10 (3) of the Protocol)

See 3-4-1 above.

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

Japan ensure the implementation of the regulation in Annex V, which are relevant to the ASPA, HSM, and the management plan of ASPA through enactment of Antarctic Environment Law.

Visitors who have been permitted to enter ASPA during the 2004/2005 season, are obliged to submit a visit report.

The Ministry of the Environment amend partially the Enforcement Ordinance of the Law Relating to Protection of the Environment in Antarctica to mplement Meaures 1,2,3(2004) adopted in ATCM27.