

南極条約第7条5に基づく事前通告のための電子情報交換システム(EIES)について(案)

外務省地球環境課

1. 背景

- (1) 南極条約第7条5は、各締約国に以下の活動についての通報を求めている。
「各締約国は、この条約がその国について効力を生じた時に、他の締約国に対し、次のことについて通報し、その後は、事前に通告を行う。
 - (a) 自国の船舶又は国民が参加する南極地域向けの又は同地域にあるすべての探検隊及び自国の領域内で組織され、又は同領域から出発するすべての探検隊
 - (b) 自国の国民が占拠する南極地域におけるすべての基地
 - (c) 第1条2に定める条件に従って南極地域に送り込むための軍の要員又は備品(参考:第1条2=この条約は、科学的研究のため又はその他の平和的目的のために、軍の要員又は備品の使用を妨げるものではない。)
- (2) これに基づき、南極条約協議国会議(ATCM)は2001年に「決議6」を採択し、事前に通報・通告すべき事項をとりまとめた。
- (3) その後、通報のための共通フォーマットが「電子情報交換システム(Electronic Information Exchange System: EIES)としてATCMで2008年に合意された。各締約国がフォーマットに必要事項を入力、承認することで通報内容が公開される。

2. 今回提出する資料

事前報告(Pre-season Information=2016年～2017年に行う活動の事前の通告。使用予定基地、観測船、観測用航空機、観測用ロケットの発着場所等)。

なお、年次報告(Annual Report=2015年3月～2015年6月に行った活動の事後報告)、常設報告(Permanent Information=恒久的に設置されている設備などの報告)については、6月の第148回本部総会で承認済み。

(了)

2016/ 2017 Pre-Season Information

Operational Information - National Expeditions - Stations

-Name: Syowa

Type: winter

Location:

Site Name: Syowa

Latitude: 69°00'25" S

Longitude: 39°35'01" E

Maximum Population: 130

Medical Facilities: Minimum required surgical operation facilities and dental emergency facilities are equipped. Two medical doctors stay at the station.

Remarks/ Description:

Location: Higashi-Ongul To, Lützow-Holmbukta

Elevation: 28.9 m

Established: January 29, 1957

Major Field Activities: Biological and geophysical observations in Lützow-Holmbukta area

Operational Information - National Expeditions - Vessels

Name: R/V Shirase

Country of registry: Japan

Number of Voyages: 1

Maximum Crew: 179

Maximum Passengers: 80

Departure date: December 2, 2016

Port of Departure: Fremantle, Australia

Arrival Date: March 20, 2017

Port of Arrival: Sydney, Australia

Areas of Operation: Lützow-Holmbukta, Kronprins Olav Kyst

Purpose: Transportation of cargo and personnel / Support of oceanographic and field observations

Operational Information - National Expeditions - Aircraft

Type: CH-101

Period of Flights: from December 2016 to February 2017

General Task / Remarks: transportation of cargo and personnel / support of field observations

Type: AS350BA

Period of Flights: from December 2016 to February 2017

General Task / Remarks: transportation of cargo and personnel / support of field observations

Operational Information - National Expeditions - Research Rockets

-Location Launch:

Site Name: Syowa Station

Latitude: 69°00'22" S

Longitude: 39°35'24" E

Date: Once in the summer (January or February, 2017)

Direction: All directions, depending on wind

Max. Altitude: 30,000 m

Impact Area: Within a radius of 100 km from the site

Type: Rubber balloon

Specification: OPC (optical particle counter)

Purpose: Aerosol measurement

Project Title / Number: Study on the material cycle over the Southern Ocean and sea ice area by ship-born and balloon-born aerosol observations

-Location Launch:

Site Name: Syowa Station

Latitude: 69°00'22" S

Longitude: 39°35'24" E

Date: 6 times, throughout the year

Direction: All directions, depending on wind

Max. Altitude: 30,000 m

Impact Area: Within a radius of 100 km from the site

Type: Rubber balloon

Specification: Water vapor & radio sonde

Purpose: Water vapor & Ozone measurement

Project Title / Observations of detailed structure of Polar Stratospheric Cloud and Polar Mesospheric Cloud at Syowa Station, Antarctica

-Location Launch:

Site Name: Syowa

Latitude: 69°00'22" S

Longitude: 39°35'24" E

Date: Twice daily, throughout the year and up to 4 times during the summer (January or February, 2017)

Direction: All directions, depending on wind

Max. Altitude: 30,000 m

Impact Area: Within a radius of 200-300 km from the site

Type: Rubber balloon

Specification: Radiosonde

Purpose: Aerological observation

Project Title / Number: Meteorological observations

-Location Launch:

Site Name: Syowa

Latitude: 69°00'22" S

Longitude: 39°35'24" E

Date: 1 to 2 times a week, throughout the year

Direction: All directions, depending on wind

Max. Altitude: 30,000 m

Impact Area: Within a radius of 200-300 km from the site

Type: Rubber balloon

Specification: ECC (Electrochemical Concentration Cell) Type Ozone sonde

Purpose: Ozone vertical profile measurement

Project Title / Number: Meteorological observations

Operational Information – Non Government Expeditions – Vessels-Based Operations

None

**Operational Information – Non Government Expeditions –
Land-Based Operations**

None

Environmental Information – Area Protection and Management

ASPAs: Number: 141 Name: 'Yukidori Valley', Langhovde, Lützow-Holmbukta

Permit Number: TBD

Permit Period: From: 7/12/2016 To: 31/01/2018

Number of people permitted to visit: 26

Purpose: Maintenance of monitoring equipment etc.

Event or Project Name/Number: 58th Japanese Antarctic Research Expedition

Forward Plans (JARE58)

Project name		Details / Description		Contact	URL
EIES用番号 対応教員： 牛尾准教授	Observation of the Southern Ocean using surface drifters –deployments of drifters from Shirase 海面漂流ブイによる南大洋の観測(オーストラリア気象局のブイ投入)	Surface drifting buoys will be deployed from R/V Shirase in response to the request of the Australian Bureau of Meteorology. Location and sea surface data are transmitted to the satellite.	Name: Graeme Surname: Ball Job Title or Position: Manager, Marine Operations Group, Bureau of Meteorology, Australia Phone: +61 3 9669 4203 Email: g.ball@bom.gov.au		
公開 利用 研究	Cloud fraction with an all-sky camera onboard R/V Shirase しらせ搭載全天カメラ観測による南極航海中の雲の出現特性	An all-sky camera, mounted on R/V Shirase, is used to detect marine clouds. The cloud amount product is useful to validate that from the satellite remote sensing.	Name: Makoto Surname: Kuji Job Title or Position: Professor, Nara Women's University Phone: +81-742-20-3044 Email: makato@ics.nara-wu.ac.jp		
公開 利用 研究	Antarctic Treaty System on the Ground: A Preliminary Study into the Interface between Science and Law 現場主義の南極条約体制研究:科学と国際法のインターフェイス	This study aims to investigate relationship between international law and science in the Antarctic. Fields research will be performed from the point of views which focuses on how international law is perceived and applied.	Name: Akiho Surname: Shibata Job Title or Position: Professor, Kobe University Phone: +81-78-803-7152 Email: akihos@kobe-u.ac.jp		
公開 利用 研究	Test of a hydroponic culture system using new power-saving light source at Syowa Station 昭和基地における省電力光源を用いた水生栽培試験	By using the power-saving light source which is under developing, trial of aquatic cultivation system will be conducted. Since Syowa Station does have is limited resources regarding energy and man hands, obtained data could be useful for further improvements of practical cultivation system.	Name: Takayo Surname: Ogawa Job Title or Position: Researcher, RIKEN Photonics Control Technology Team Phone: +81-48-467-9827 Email: pogawa@riken.jp		
外国 基地 派遣	Collaborative project with French researchers on Adelle penguins' behaviors アデリーペンギンの行動生態に関するフランスとの共同研究(フランス:デュモン・デュビル基地)	Comparison of Adelle penguin's behavioral ecology is the purpose of this study. Such environments as the size of the colony, feeding environments, and geomagnetic fields are different in Syowa Station and Dumont d'Urville Station. From the field research around Dumont d'Urville Station, the factors which could regulate breeding and behaving of the species will be investigated.	Name: Kozue Surname: Shiomi Job Title or Position: Assistant Professor, NIPPR Phone: +81-42-512-0742 Email: shiomi.kozue@nipr.ac.jp		

Forward Plans (JARE58)

Project name	Details / Description	Contact	URL
<p>Others (その他) Collaborative project with UK on the Signy Island terrestrial ecosystem シグニー島における陸上生態系に関する英国との共同研究 (イギリス:シグニー島)</p>	<p>The purpose of this study is comparison of the differences of the diversity of micro animals and the micro-habitat under the different climatic conditions. Since the data have already been obtained around Syowa Station which is located in continental Antarctic, Field sampling is planned at Signy Island which is in warmer sub-Antarctic and has higher diversity of micro animals.</p>	<p>Name: Megumu Surname: Tsujimoto Job Title or Position: Research Fellow, NIPR Phone: +81-42-512-0763 Email: tsujimoto@nipr.ac.jp</p>	

EIES用番号

外国
基地
派遣

対応教員:
伊村教授