

№ 44

The Embassy of the Russian Federation presents its compliments to the Foreign and Commonwealth Office and has the honour to inform the FCO that due to changes made by the Russian side instead of the Russian research vessel "Akademik Sergey Vavilov", which was planning to carry out scientific research during the period from 10 May to 04 June 2009, including that in the exclusive economic zone of the United Kingdom of Great Britain and Northern Ireland (the clearance for this cruise has been given by the United Kingdom authorities – see the FCO Note Verbale 035/2009, dated 2 April 2009), the Russian research vessel “Akademik Ioffe”, its replacement, is planning to carry out scientific research during the period from 6 September to 30 September 2009, including that in the exclusive economic zone of the United Kingdom of Great Britain and Northern Ireland during the period from 20 September to 28 September 2009.

The cruise is a part of the CLIVAR International Program, which is the continuation of the International World Ocean Circulation Program. Specific goals of the cruise are to provide the description of the thermohaline ocean structure, to monitor the spatiotemporal changes of transatlantic meridional water and heat transport.

**FOREIGN AND COMMONWEALTH OFFICE  
AVIATION AND MARITIME DEPARTMENT  
LONDON**

The Embassy would appreciate if the Foreign and Commonwealth Office could forward the above information to the relevant British authorities and assist the Russian side in obtaining clearance for “Akademik Ioffe” to operate in the exclusive economic zone of the United Kingdom of Great Britain and Northern Ireland.

The Embassy of the Russian Federation avails itself of this opportunity to renew to the Foreign and Commonwealth Office the assurances of its highest consideration.



London, “ 6 ” April 2009

Encl.: Notification of proposed research cruise

**APPLICATION FOR OCEANOGRAPHIC MEASUREMENTS IN THE ECONOMIC ZONE OF  
GREAT BRITAIN**

**GENERAL**

**Part A**

1. Name of the ship                   **“Akademik Ioffe”**
2. Dates of cruise                   **From September 6, 2009 to September 30, 2009**
3. Operation Authority           **Academy of Sciences of Russia,  
P.P. Shirshov Institute of Oceanology  
Nakhimovsky pr., 36  
Telephone (095) 1246196 Telex 411968 OKEAN RU  
Fax (095) 124 5983**
4. Owner (if different from para 3)
5. Particulars of ship:   Name                   **“Akademik Ioffe”**  
                                  Nationality           **RUSSIA**  
                                  Overall length       **117 m**  
                                  Maximum draught   **5.9 meters**  
                                  Net tonnage           **6600**  
                                  Engine               **PIELSTIK 6 ChMN 40/46, 2 x 2576 kW**
6. Crew                               Name of Master       **S. Pchelín**  
                                  Number of crew members   **42**
7. Scientific Personnel   Name and address of       **Dr. A.V. Sokov, Academy of Sciences  
the scientist in charge   of Russia, P.P. Shirshov Institute of  
  Oceanology, Nakhimovsky pr., 36,  
  117997, Moscow, Russia**  
                                  Tel/telex               **(095) 124 6142/ 411968 OKEAN RU**  
                                  Fax                       **(095) 124 5983**  
                                  No. of scientists       **25**
8. Geographical area in which ship will operate (with reference in latitude and longitude).  
   **Hydrographic section from 59°55' N 42°30' W to 59°30' N 04°36' W.**
9. Brief description of purpose of cruise  
   **The cruise is a part of the CLIVAR International program, which is the continuation of the  
International World Ocean Circulation Program. Specific goals of the cruise are to provide the  
description of thermohaline ocean structure; to monitor the spatiotemporal changes of  
transatlantic meridional water and heat transport, to investigate and evaluate the exchange in  
the northern part of the Atlantic Ocean.**
10. Dates and names of planned ports of call.  
   **Departure: September 6, 2009                               Resolute (Cambridge Bay, Canada).  
Port call:   between September 23 and 27, 2009 for 2 days Edinburgh (Scotland)  
Arrival:     September 30, 2009                             Kaliningrad (Russia).**
11. Any special logistic requirements at port of call .....**NONE**

**APPLICATION FOR OCEANOGRAPHIC MEASUREMENTS IN THE ECONOMIC ZONE OF GREAT BRITAIN**

**GENERAL**

**Part B**

1. Name of the ship                    **“Akademik Ioffe”**
2. Dates of cruise                   **From September 6, 2009 to September 30, 2009**
3. Time of work within the exclusive economical zone of Great Britain: **from September 20, 2009 to September 28, 2009**

The ship enters the economical zone of Great Britain on September 20, 2009 at 00:00 GMT in co-ordinates 59° 30' N, 18°30' W. The ship makes 21 hydrographic stations according to the list of stations. The final station is located at 59°30' N, 04°36' W. After the final station the ship goes to Edinburgh (Scotland).

1. Purpose of research and general operational methods.  
The research work will be carried out by the P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences. The cruise is financed by the Ministry Economical Development of Russia. The cruise is a part of the International Climate Variability Program (CLIVAR). Specific goals of the cruise are to provide the description of thermohaline ocean structure; to monitor the spatiotemporal changes of transatlantic and meridional water and heat transport.  
The operational methods to be used for the research include measurements of ocean water physical (temperature, salinity) and chemical (oxygen, nutrients) properties at hydrographic stations. The full depth vertical profiles of temperature and salinity will be obtained by profiling with oceanographic CTD (conductivity/temperature/depth) instrument. The chemical properties will result from on board analyses of water samples collected at specified levels by deployment of a 24-bottle rosette. The measurements are made without touching the bottom.
2. A chart showing (on an appropriate scale) the geographical area of the work and positions of planned stations is attached. The navigation is performed by means of the GPS satellite navigation system. The position of hydrographic stations within the exclusive economical zone of Great Britain:

Longitude	Latitude
04°36 W	59°30 N
05°15 W	59°30 N
06°00 W	59°30 N
06°40 W	59°30 N
07°20 W	59°30 N
08°00 W	59°30 N
08°40 W	59°30 N
09°20 W	59°30 N
10°00 W	59°30 N
10°40 W	59°30 N
11°20 W	59°30 N
12°00 W	59°30 N
12°40 W	59°30 N
13°20 W	59°30 N
14°00 W	59°30 N
14°40 W	59°30 N
15°20 W	59°30 N
16°00 W	59°30 N
16°40 W	59°30 N
17°20 W	59°30 N
18°00 W	59°30 N

The measurements at these stations will be carried out from September 20, 2009 to September 28, 2009.

3. Type of samples required, and methods by which samples will be obtained.  
**Only seawater samples are required for salinity, oxygen, and nutrient analyses. The water samples will be taken from selected pressure levels using bottles mounted on a rosette. The measurements are made without touching the sea bottom.**
4. Details of moored equipment.  
**No equipment will be moored during the cruise.**
5. Explosives. **NONE**
6. Radioactive compounds. **NONE**
7. State:
  - (a) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable.  
**YES.**
  - (b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation/disembarkation.  
**YES. Any ports and dates mentioned in para 10 of Part A are acceptable.**
  - (c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.  
**The raw data will be available after end of the cruise from the chief scientist by means of the INTERNET.**

SCIENTIFIC EQUIPMENT.

11. Complete the following table - SEPARATELY COPY FOR EACH COASTAL STATE.  
 (INDICATE "YES" OR "NO")

List of all Major Marine equipment planned to use and indicate waters in which it will be deployed	Within Fishing Limits	On Continental Shelf	DISTANCE FROM COAST			
			Within 3 NM	Between 3-12 NM	Between 12-50 NM	Between 50-200 NM
Sea-Bird 911 with Niskin bottles for water sampling	YES	YES	NO	NO	YES	YES
SBE 32 rosette system 24 bottles - 5l	YES	YES	NO	NO	YES	YES
300 kHz Workhorse Sentinel ADCPs	YES	YES	NO	NO	YES	YES

Chart of stations in the Economical Zone of Great Britain in the cruise of  
R/V "Akademik Ioffe" in September, 2009  
Circles show stations in the economical zone

