The Atmospheric Sciences Program (ASP) at The Ohio State University was established in 1971 and is currently a separate graduate program in the Department of Geography with its own Graduate Studies Committee and program requirements.

For the Master's of Science degree and the Ph.D. degree, all Atmospheric Science students will be required to complete courses in thermodynamics, dynamics and radiation. These have prerequisites of courses in ordinary and partial differential equations and basic science sequences in physics and chemistry. However, the program is flexible and students may thereafter select from a variety of subfields for specialization in atmospheric related work. These include the dynamics of atmospheric systems (general circulation, hurricanes), boundary layer meteorology, synoptic meteorology, tropical meteorology, Antarctic and Arctic meteorology and climatology, paleoclimatology and climatic change. Since 1990, the Atmospheric Sciences Program has awarded 44 Master of Sciences degrees and 21 Ph.D.s.

Facilities

Research is supported by an excellent library system housing some 3.8 million volumes, 2.3 million microforms, and 200,000 map sheets. Current serial subscriptions number 26,000 series and include virtually all journals of value in atmospheric research. A computer-based circulation system provides access to catalog data and information on location and availability of materials via public or personal terminals. Computer-based literature searches also are available.

As well as the usual range of academic departments, the University also supports a variety of specialized research centers and programs. These include the Byrd Polar Research Center, Center for Lake Erie Area Research and Water Resources Center.

University computer facilities are provided on a Hitachi Pilot 27 enterprise server, with logical partitions and RAID-5 storage. The system supports advanced software and graphics terminals and plotters. More than 1000 micro computers in 32 campus sites are also available. Access is also possible to a CRAY T90 through The Ohio Supercomputer Center.

The Department of Geography supports a small atmospheric science library and the offices and library of the State Climatologist for Ohio. A large range of meteorological instrumentation is available, including ra-

orated into the student's program using courses offered in other departments within the university. Several credit hours of individual study with one or more faculty members is included in most M.S. and Ph.D. programs.

Admission Requirements

1. An earned baccalaureate or professional degree from an accredited college or university by the expected date of entry.

2. A minimum grade point average (GPA) of 3.00 (on a 4.0 point scale, A=4, B=3, C=2) for all collegiate work. However, students with GPAs less than this may qualify for admission if other components of their records are strong. For foreign students with a B.A. (Hons) or S.Sc. (Hons) degrees, a minimum of class 2.1 is required.

3. All applicants must take the General Aptitude Test of the Graduate Record Examination. Foreign applicants may take the GRE in their home country.

4. If an applicant's first language is not English and a Degree is not earned in an English-speaking country, a minimum TOEFL score of 600 (paper-based), 250 (computer based), 100 (IBT) is required. All incoming foreign students must further have their spoken English evaluated on campus once they arrive, to be cleared for classroom teaching.

5. Coursework in mathematics to the level of partial and ordinary differential equations is required although students with some math course work deficiencies can take these courses once they begin their studies.

Students interested in Atmospheric Sciences must apply for admission to the following address:

The Office of Graduate Admissions
The Ohio State University
3rd Floor, Lincoln Tower
1800 Cannon Drive
Columbus, Ohio 43210
http://www.gradapply.osu.edu

Other materials and questions regarding admissions should be sent to:

Professor Jeffrey C. Rogers
Atmospheric Sciences Program
The Ohio State University
1036 Derby Hall / Columbus, Ohio
43210-1361
Applications made to the Office of Admissions, together with all supporting documents, must be received by the Admissions Office no later than August 1, December 1, March 1, or June 1 for the Autumn, Winter, Spring, and Summer Quarters respectively. An international student who is a candidate for a U.S. non-immigrant visa must complete his/her application by July 1, November 1, February 1, or May 1 for the same quarters. Applicants are reminded, however, that in most cases when financial assistance is desired applications and all accompanying materials (including GRE results) should arrive prior to February 1.

Admission Credentials

An applicant must submit the following criteria (see The Ohio State University Graduate Admissions website and Instructions form for further details http://gradadmissions.osu.edu/):

1. an official transcript from each college or university attended, listing all courses taken, grades and degrees earned, and dates of graduation (Ohio State students need not submit transcripts from this university.)

2. the completed application form

3. a certified statement indicating that financial resources are available to defray the cost of graduate education. This requirement applies only to international applicants who are a candidate for a U.S. non-immigrant visa or study at this university.

4. GRE results

5. three letters of recommendation from persons acquainted with the applicant's academic program, scholastic ability, or professional performance. These are submitted to Professor Rogers (see address above).

6. a brief statement describing the applicant's educational and professional goals and objectives, including their research interests. This is submitted to Professor Rogers in the Atmospheric Sciences Program, and statements by Ph.D. applicants must emphasize their research interests.

Financial Assistance

Each student who applies for admission to the Graduate School may apply simultaneously for an Associateship and/or Fellowship.

Fellowship programs are administered by the Graduate School and are described on the Graduate School's website http://www.gradsch.ohio-state.edu. Applicants should be aware of the following time schedule relating to University Fellowships:

<table>
<thead>
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<th>Deadline for application and receipt of required paperwork</th>
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<tbody>
<tr>
<td>(Domestic)..................................................January 15</td>
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<tr>
<td>(International).................................November 25</td>
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<tr>
<td>Notification of awards.........................March 15</td>
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<tr>
<td>Deadline for acceptance or refusal of awards.........................April 15</td>
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</table>

University Fellowships

Fellowship programs are administered by the Graduate School and are described in the Graduate Bulletin. A limited number of University fellowships are awarded each year. The stipend is $14,400 for 12 months. These fellowships also include a waiver of all tuition and most fees for a total of $25,120 (resident) or $41,724 (non-resident). A University Fellow is eligible for a Graduate Associateship in subsequent years (see below). The stipend will correspond to the level of responsibility.

Applicants for University Fellowships must have a point hour ratio of 3.50. The average percentile of the verbal/math score should be above the 75th percentile with a writing score of 4.0. A student may still be eligible for a fellowship if only one of these criteria is exceeded and should consider meeting the January 15 deadline. Other students with a GPA above 3.0 should apply for graduate associateships (see below) by February 15. Fellowship GPA minimums are 11.1 in the British system and 90 for Chinese students.

To enhancing University diversity, each year the Graduate School awards approximately 100 Graduate Enrichment Fellowships to minority students. These require a 3.1 GPA, a 40th percentile GRE average and a 3.5 writing score.

Completed application files for international students must arrive by November 26, 2008, for next year's fellowship competition.

Graduate Associateships

Graduate Teaching and Research Associateships are available through the Atmospheric Sciences Program. In addition to a basic stipend, a Graduate Associateship provides for a waiver of most general fees, out-of-state fees, and university tuition, provided a) the student is enrolled for 12 or more credit hours in a given quarter, and b) the terms of the contract are for a full quarter at a monthly compensation rate of at least $1100. Graduate Associates who are under contract for three consecutive quarters are granted a waiver of general fees, out-of-state fees and university tuition for the fourth quarter (usually summer). In 2007-08, these fee waivers amount, on an annual basis, to $33,421 (4 quarters) for out-of-state student and $10,723 (4 quarters) for Ohio Residents. These waivers are financial additions to the basic stipend received by the Research Associate.

The basic stipend for the year is $9,900 for 9 months ($1100 per month) for first year Masters Students. Beginning Ph.D. students receive $1320 per month. Graduate Associates normally receive an appointment for three quarters at 50 percent time. Normally, a 50 percent work load entails service for approximately 20 hours of work per week. This time will be spent assisting faculty engaged in research in the atmospheric sciences. Financial assistance for summer quarter may also be available, subject to budgetary constraints.

Graduate Faculty

Keith W. Bedford, Ph.D., Cornell, 1974, Bedford.1@osu.edu; Professor, Civil & Environmental Engineering and Geodic Science. Coastal engineering, pollution and transport.

Jason Box, Ph.D., Colorado, 2001, box.11@osu.edu; Associate Professor, Boundary layer of polar ice caps. Polar climatology.

David H. Bromwich, Ph.D., Wisconsin, 1979, Bromwich.1@osu.edu; Professor, Geography and Byrd Polar Research Center. Polar boundary layer dynamics, polar precipitation studies.

Jay S. Hobbins, Ph.D., Ohio State, 1984, hobbins.1@osu.edu; Director of Atmospheric Sciences Program. Associate Professor, Atmospheric Sciences Program. Tropical meteorology; atmospheric dynamics, numerical weather prediction.

Kenneth Jezeck, Ph.D., Wisconsin, jezek.1@osu.edu; Professor, School of Earth Sciences and Byrd Polar Research Center. Remote sensing of polar ice, ice sheet dynamics.

Jialin Lin, Ph.D. SUNY Stony Brook, lin.789@osu.edu; Assistant Professor, Global climate modeling, climate change, ENSO, tropical convection and cyclones.

Bryan Mark, Ph.D., Syracuse, 2001, mark.8@osu.edu; Associate Professor, Byrd Polar Research Center. Paleoclimatology, glaciology, polar and alpine environments.

Ellen Mosley-Thompson, Ph.D., Ohio State, 1979, Thompson.4@osu.edu; Professor, Geography and Research Scientist, Byrd Polar Research Center. Paleoclimatology, glaciology, polar and alpine environments.

David F. Orinych, Ph.D., UCLA, 2002, orinych.1@osu.edu; Assistant Professor, Geography. Paleoclimatology, biogeography, paleoecology.

Jeffrey C. Rogers, Ph.D., Colorado, 1979, rogers.21@osu.edu; Professor, Geography. Chair of ASP Graduate Studies Committee. Synoptic meteorology, climatic change, polar climates.

Lonnie G. Thompson, Ph.D., Ohio State, 1976, Thompson.3@osu.edu; Professor, School of Earth Sciences and Byrd Polar Research Center. Paleoclimatology, glaciology, climate change and alpine environments.