University Name: Brown University
Name of Member Representative: Amanda Lynch
Name of Member Representative: Baylor Fox-Kemper

**PROGRAM INFORMATION:**

List the departments and programs at your institution that are engaged in atmospheric and related sciences.

- Division of Applied Mathematics
- Department of Earth, Environmental and Planetary Sciences (formerly Geological Sciences)
- Department of Physics
- Department of Ecology and Evolutionary Biology
- Institute at Brown for Environment and Society

Indicate the total number of tenure-track and non-tenure-track faculty in the departments and programs listed above who are involved in atmospheric and related sciences. **42**

List the relevant degrees, certificates, and other educational programs offered in the atmospheric and related sciences at your institution.

- Division of Applied Mathematics: AB, ScB, PhD
- Department of Earth, Environmental and Planetary Sciences (formerly Geological Sciences): AB, ScB, PhD
- Department of Physics: AB, ScB, PhD
- Department of Ecology and Evolutionary Biology: AB, ScB, PhD
- Institute at Brown for Environment and Society: AB in Environmental Studies, ScB in Environmental Science

*Note for degree counts in the next two questions: The totals for all departments listed under “relevant degrees” are 1,070 undergraduate and 549 graduate degrees. Some of those degrees did not necessarily concentrate in atmospheric sciences, but our data collection system does not separate out those with a concentration in atmospheric sciences. We can say there were at least 245 undergraduate and 75 graduate degrees had a concentration in atmospheric sciences, so those are the numbers we report under the next two questions.*

How many undergraduate degrees were awarded in atmospheric and related sciences during the last eight years? **245**

How many graduate degrees were awarded in atmospheric and related sciences during the last eight years? **75**
PROGRESS IN ATMOSPHERIC AND RELATED SCIENCES:

Indicate your institution's progress and contributions in the atmospheric and related sciences within the last eight years. Check all that apply.

- Produced refereed and/or non-refereed publications
- Produced textbooks or other teaching materials
- Received external funding
- Participated in scientific societies

Briefly describe any additional contributions or information you wish to share with the committee. (optional)

In 2014, Brown launched the Institute at Brown for Environment and Society (IBES). Scholarship in the institute will be guided by four key questions:

- How can we understand the functioning and response of Earth’s natural systems in the face of rapid and pervasive global change?
- How can we optimize — effectively, efficiently, and equitably — food production and water distribution for current and future generations?
- How can we understand and support human health and wellbeing in the face of combined environmental and social vulnerability?
- What governance and economic structures facilitate these solutions in a just and equitable manner, in ways that support our most vulnerable people?

To address them, IBES will engage Brown faculty from a wide variety of departments, including Geological Sciences, Ecology and Evolutionary Biology, Biostatistics, Epidemiology, Pathology, Sociology, Economics, Anthropology, Africana Studies and Political Science. Guided by those four key questions, research themes will fall into four broad categories: natural systems, food and water, health and wellbeing, and equity and governance.

IBES includes 43 Faculty Fellows from 14 departments, with 72 undergraduate concentrators and 63 affiliated graduated students.

PARTICIPATION IN UCAR ACTIVITIES:

How many of the last eight Annual Members Meetings has at least one Member Representative from your institution attended? 7
If applicable, list the UCAR Governance Committees that your faculty and staff have served on during the last eight years.

- **Amanda Lynch served on the Nominating Committee.**
- Amanda Lynch is on the NCAR CGD Advisory Panel since 2015.
- Baylor Fox-Kemper is on the CESM Scientific Steering Committee and is co-chair of the CESM Ocean Model Working Group.

If applicable, list the NCAR Advisory Committees or Panels that your faculty and staff have participated in during the last eight years.

If applicable, briefly list UCAR/NCAR facilities and/or resources used by your faculty, staff, and students during the last eight years.

- Many faculty are users of CISL computing resources. Ph.D. students have gone to the NCAR CESM training school. Faculty have participated in NCAR Geophysical Turbulence Program workshops. Graduate students and undergraduate students have participated in extended stay programs at NCAR.

If applicable, briefly list examples of collaborative research activities with UCAR/NCAR staff by your faculty, staff, and students during the last eight years.

- Faculty have collaborated on development and applications of the CESM, CAM-CHEM, WRF, PMIP, SYNTRACE, TRACE21, CMIP, and other modeling initiatives. Some collaborative proposals have been funded with NCAR scientists as collaborators or co-investigators.

If applicable, list participation in any other UCAR/NCAR activities by your faculty, staff, and students during the last eight years that are not already indicated above.

- **Brown hosted a campus visit from former UCAR President Tom Bogdan**