

Tundra ringing the North Pole (dark areas on the map) hold an estimated third of the world's carbon. A massive release of carbon dioxide could worsen a projected global warming trend.

In 2-year study

## Arctic tundra may hold plant secrets

By Donald J. Frederick National Geographic Society

Hundreds of pounds of arctic tundra in North Ca-rollan may yield new information about the growth rate of many plants and future levels of carbon dioxide in the atmosphere.

Collected near Barrow, Alaska, the tundra was flown still frozen to Duke University's physitron, a climate-controlled facility that has 40 "growth rooms" and six large greenhouses.

Thawed under carefully controlled conditions, the plants and peat comprising the tundra will be examined over two years at various soil and air temperatures and under light conditions duplicat-ing the arctic summer.

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Botanists Dwight Billings of Duke and Kim Pelerson of Clemson University, project coordinators, hope the tests will ascertain whether the tundra absorbs or releases carbon dioxide when subjected to warmer temperatures or an increase of

this expanse.

As Billings points out, "Some researchers, mysell not included, think arctic plants will absorb carbor dioxide rather than release it during a longer grow

in geason.

"We tope to settle the question, because a lot of carbon could be released through peat decomposition, worsening an arteady worrisome atmospheric carbon doubte problem. And there are indications that temperatures in the arctic will rise 4 to 7 degrees Farthershell in the next 50 to 60 years, lengthening the growing season." The project is supported by the National Science Foundation.

OTHER INVESTIGATIONS at the phytotron are attempting to find the long-term effects of double carbon dioxide levels on ordinarty plants. Preliminary experiments with high concentrations of the gas have shown that some crop plants such as wheat and rice do surprisingly well.









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