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POLLUTION OF THE ARCTIC ATMOSPHERE

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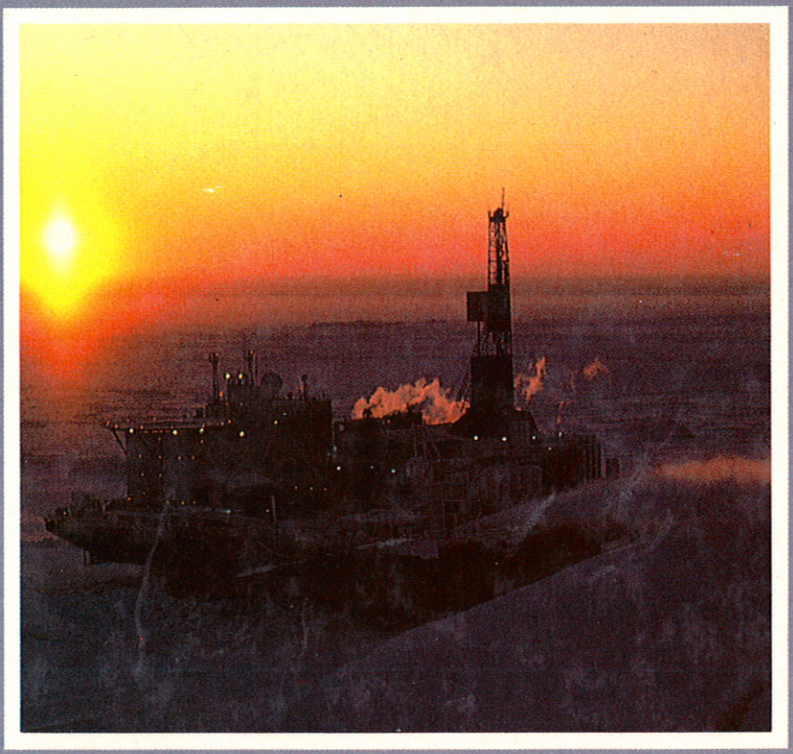
W.T. STURGES



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Cover illustration:

position off Prudhoe Bay. Possible influences on
the oil industry and Prudhoe are discussed in Chapter
on a floating research station, including atmospheric
annual ice it would be allowed to drift slowly
sun is turned red as it sets into a bank of 'arctic
to the Arctic from mid-latitude sources;
courtesy of S. B. Wetmore and reproduced

POLLUTION OF THE ARCTIC ATMOSPHERE

Edited by

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ughout the entire arctic region every year during

ecades research on the arctic atmosphere has blos- beginnings and is now intensifying at an unprece- overnments and universities of Canada, the USA, ermany and Denmark are among those engaged in national and international research programmes. ammes have been shining examples of international

n is no longer just a question of simple aesthetics; the nvironments, although that should be reason enough otential for real environmental peril is now being is indeed a harsh and hostile world, but it is also one d delicate balance. Toxic substances are beginning to hains there (Chapter 8), whilst acids and heavy metals to the snow and ice (Chapters 3, 4 and 6) with as yet nces to the arctic ecology following snowmelt. Much ntly been focused on the antarctic ozone 'hole': it rctic stratosphere is itself poised for similar ozone des- to take place (Chapter 7). Perhaps of most concern is limate change in the Arctic (Chapters 5 and 10). The rctic climate (Chapter 2) is such that global change may first, and change there could in turn have wider reper- hern hemisphere climate and global sea levels. Finally, the Arctic contain enormous resources of minerals and ntation of these resources is already underway (Chapter t for us to understand more of the complex processes of nment to be able to predict and ameliorate future growing industrialisation of the North.

to those persons named by individual authors who gave the articles herein, I would also like to thank Russ Barry Bodhaine, Pat Sheridan and Jon Kahl for suggestions, and Karen and Thomas Sturges

observe arctic haze. The native people had change and given it a name: 'poo-jok', Crocker Land Expedition of 1914, Museum of Natural History, New York). is dedicated to those people of the Arctic.

Environmental Sciences

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