U.S. Scientist Sees New Ice Age Coming By Victor Cohn; Washington Post Staff Writer The Washington Post, Times Herald (1959-1973); Jul 9, 1971; ProQuest Historical Newspapers: The Washington Post

U. S. Scientist Sees New Ice Age Coming

By Victor Cohn Washington Post Staff Writer The world could be as little as 50 or 60 years away from a disastrous new ice age, a leading atmospheric scientist predicts.

Dr. S. I. Rasool of the Na-Aeronautics and Administration and Space Columbia University says that:

- "In the next 50 years," the fine dust man constantly puts into the atmosphere by fossil fuel-burning could screen out so much sunlight that the average temperature could drop by six degrees. If sustained over "sev-
- eral years" "five to 10," he estimated-"such a temperature decrease could be sufficient to trigger an ice age!" conclusions—in-These

cluding the ominous exclamation point rare in scientific publication — are printed in this week's issue of the journal Science out today, signed by Rasool and co-worker Dr. S. H. Schnei-

They are also being presented by Schneider at an in-

ternational Study of Man's Impact on Climate now being held in Stockholm as a prelude to a world environmental conference there Dr. Gordon F. MacDonald,

scientist-member of Presi-

Nixon's three-man Council on Environmental Quality, said in an interview that these conclusions point up "one of the serious problems" U.S. and other delegates must address next year. He called Rasool "a first-

rate atmospheric physicist" whose estimate that fuel dust could drop temperatures by six degrees "is consistent with estimates I and others have made.' Whether this could cause

an ice age "within five or 50 years or even more," he said, "I wouldn't want to guess." But he "agreed

pletely" with Rasool that is is now urgent to start an international network to monitor atmospheric dust.

be simply necessary for men to stop most fossil fuel-burning-use of coal, oil, natural gas and automobile gasoline -and switch in the main to nuclear energy, despite the atom's own disadvantages. Pollution controls alone, he said, cannot do the job. "I think you have to stop the

source.' A new ice age would flood the world's coastal cities and further lower temperatures to build up new glaciers that could eventually cover huge areas.

Scientists have long debated whether man's activity is actually heating or cooling the earth, if either. A "1970 Study of Critical Problems" Environmental concluded that the Rasool-

was impossible to make yet. "The area of greatest uncertainty," that study con-cluded, is "our current lack of knowledge" of the optical properties of man-made dust "in scattering or absorbing

Schneider kind of prediction

turrectiation or ner or it thee wanted or If his calculations provelar generathi" fastest computcorrect, Rasool said, it may ers_Tat thermas Athioddista spaulty Franco Cendeschingider

tute for Space Studies at

Columbia University. They also had available a computer program oped by Dr. James Hansen there to study the optical properties of the clouds of They applied the same program to make what Rasool called the first sophisticated calculations of fuel dust's sunlight-scattering properties.

They found no need to about the carbon dioxide fuel-burning puts in atmosphere. The fuel particles they do worry about are sulfates, nitrates and hydrocarbons, with the largest single source sulfur dioxide converted to sulfates.