## ce Age Possibility Troubles Scientists

GENEVA-Many scientists believe a new ice age is coming, but none can agree when, or how hard it is going to hit us.

Some climate specialists studying clues as varied as volcanic dust, the earth's wobble, tree rings and sunshine have concluded the world is years of comparative warmth. about due for a big freeze after 10,000

But others predict no more than a mini-freeze, like the "little ice age" which seized Europe between 1430 and the present French Alpine resort of 1850. It froze all the rivers of Gerand France would look like Lapland. many in 1431 and Iced up villages near Nepal could be covered by ice sheets New Zealand, Britain, If they are right, such countries as Canada and

Chamonix in the early 17th century.

During the U.S. Revolutionary War
200 years ago, British troops were
able to slide their guns from Manhattan to Staten Island across the ice.
A report by the U.S. Central Intel.

throughout the world.
In India 150 million people would ligence Agency recently spelled out the possible effects of a Little Ice Age

die during four-yearly droughts if the

average temperature dropped by one degree Centigrade. China would face the CIA report said. grain production and Canada's grain harvest would drop by 50 per cent, viet Kazakhstan would be lost for a major famine every five years. So-

Union. perts who say temperatures were above average throughout the 1970s in much of Europe and the Soviet ready cooling. This theory has been vigorously challenged by other ex-The report added the world was al

maintain there is no particular reason for the next Ice Age to close in for creased in recent years. ice in the Arctic Circle and snowfall in the northern hemisphere has de-The more optimistic climatologists They also contend that the area of

ment on what scientists know about climate changes, the Geneva-based World Meterological Organization asy several thousand years. sembled a group of experts here. To draw up an authoritative state

is how near is the next Ice Age. One question they will not answer

knows," said the WMO's British di-"We just do not know. Nobody

rector of program planning, Oliver Ashford,

warmer in the last 10,000 years than in the previous Ice Age, it is difficult to make any prediction with any real degree of scientific accuracy." know the physics of why it has been tion" he explanied. "You can use a statistical projec-on" he explanied. "But until you

Stockholm, Sweden, two years ago. was summed up by a United Nations study conference of climatologists in One basis of the statistical argument

years," the conference reported. glacial "The world has been in an inter period for the past 10,000

present day conditions) have been rather brief (in the order of 10,000 years)," it said. "The transitions from glacials (comparable to the warmth of terglacial to glacial." been more abrupt than those from inglacial to interglacial have usually "The warmest stages of the inter-

is due. In other words, on the world's past record, another dip into the cold age

to 1. But it put the chances of a Little the odds against a new ice age in the next century at somewhere at 1,000 ice Age at one in 10. Man-made pollu-The Swedish symposium estimated

Ashford explained. tion complicates the forecasts,

Dr. Reid Bryson, a controversial cli-mate specialist at the University of Wisconsin whose research formed the to the increase in man-made dust. the Sahel region could be traced back said recent changes in weather pat-terns such a sthe African drought in basis for the CIA's predictions, has

from industry and careless agricul-ture that shut off the sun's days. But, cano" of man-made smoke and climate trigger was a "human said natural volcanoes were the prime again, other meteorologists have criticause of climtae changes in the cized his theories. vious centuries. But after 1930 In scientific papers, Dr. Bryson has dust the Vol-

main clues about the earth's weather machine are the variations in its or it round the sun, and the wobble in its axis. These factors can vary the amount of sunshine reaching the Some experts have suggested the

Tree-ring dating—based on the assumption that the weather is reflected in the thickness of a tree trunk's ther and further into the past -is pushing back fur