news roundup

World

New ceasefire called in Middle East — Israel resumed the fighting in Lebanon yesterday by bombing targets in Beirut. A new ceasefire, the eleventh in the two-month-old siege, was called in the evening. President Reagan called Israeli Prime Minister Begin to "express his outrage," and declared that "this ceasefire must last." These developments came just as it seemed the peace mission of special US envoy Philip Habib would succeed. Talks were halted, but are expected to resume today.

Nation

Henry Fonda dies at age of 77 — Henry Fonda, father of Jane and Peter Fonda, died yesterday in Los Angeles after a long fight with heart disease. His wife, Shirley, said Fonda was peaceful and conscious up to the very end. Jimmy Stewart proclaimed, "I have lost my best friend."

Local

Cambridge challenges Somerville to ballgame — The mayors of Cambridge and Somerville will meet in a cross-town softball match today at Donnelly Field in Cambridge. The mayors will be reinforced by city police and employees in the match, which is being billed as "The Softball Game of the Year." Mayor Velleucci of Cambridge has promised Mayor Brune of Somerville that he can have Cambridge if he wins. Brune, confident of victory, has already printed up press releases announcing "Mayor Brune to annex Cambridge."

Weather

Today will be cool with the high about 66. There will be mixed clouds and sunshine with a slight chance of rain. Tonight the low will be from 54 to 58 with partial clouds. Tomorrow will be mostly sunny with the high from 73 to 77.

Charles Brown and Bill Giaffre

Professor says volcanic dust changes climate

="Continued from page 1"

weather," commented Newell. "There was a very high cloud of dust. It will take about a year for it to degenerate into sulfates."

Dust and ash from the volcano have hounded the earth from the equator to about 30° North latitude at an altitude of about 18 kilometers. In this band scientists have noticed the greatest decrease in radiation, although the effect slowly decreases to the north and south.

Boston is north of the band of debris.

The greatest visual effects of the dust and ash are a red sky just before sunrise and just after sunset. "These effects were well noted in England," Newell said. "The debris can stay up for many years and if it does I would certainly expect some kind of temperature change." Newell noted. "But it is almost impossible to say right now how something like snowfall will be affected by this."

Newell compared the eruption of El Chichon to the Mount St. Helens eruption in 1980 and to that of Mount Agung on Bali in 1963. Mount Agung exploded with a force of about two megatons, and Mount St. Helens with about a half a megaton; the force with which El Chichon erupted has not yet been determined.