

the nation

Scientists hope pictures will answer questions

PASADENA, Calif. — Voyager 2 took close-up pictures Monday of Europa, the second largest moon of Jupiter, to help scientists determine why it is the only white moon of the planet and why it is seamed with grooves thousands of miles long.

Photographs of the satellite, which is about the size of Earth's moon, show it is cracked and pitted and possibly covered with ice or snow.

Scientists also said pictures of the tiny satellite Amalthea, the closest moon to the planet, show it is a deep dark red, much redder than Mars.

The potato-shaped moon is 164 miles long by 87 miles wide and is about 10 times larger than Phobos, the largest of the two moons of Mars.

Voyager 2, speeding toward its close encounter with Jupiter at about 44,000 mph, made a photo

mosaic map of Europa during the morning hours.

The spacecraft was to fly by Jupiter at a distance of 404,100 miles before being hurled onward toward Saturn a half billion miles farther out in space.

The spacecraft made photos of the ring around Jupiter while approaching the planet and was to make more pictures as it sailed away. The ring was discovered by Voyager 1 in March.

Scientists said the ring is believed to be thin and more like the rings of Uranus than those of Saturn.

After the close encounter, Voyager will continue its scientific investigations of Jupiter and its four Galilean moons, particularly concentrating on a series of photos of the volcano of Io, the bright, orange moon that is closest of the four to Jupiter.

Scientists said at least six active volcanoes were venting sodium, oxygen and sulfur into the space around Jupiter. The moon travels in a path called a torus, made of fast-moving sulfur and oxygen and sulfur dioxide particles.

The satellite also may have a "tenuous atmosphere" of sulfur dioxide as a result of the gases emitted by the volcanoes, Dr. Edward Stone, project scientist, said.

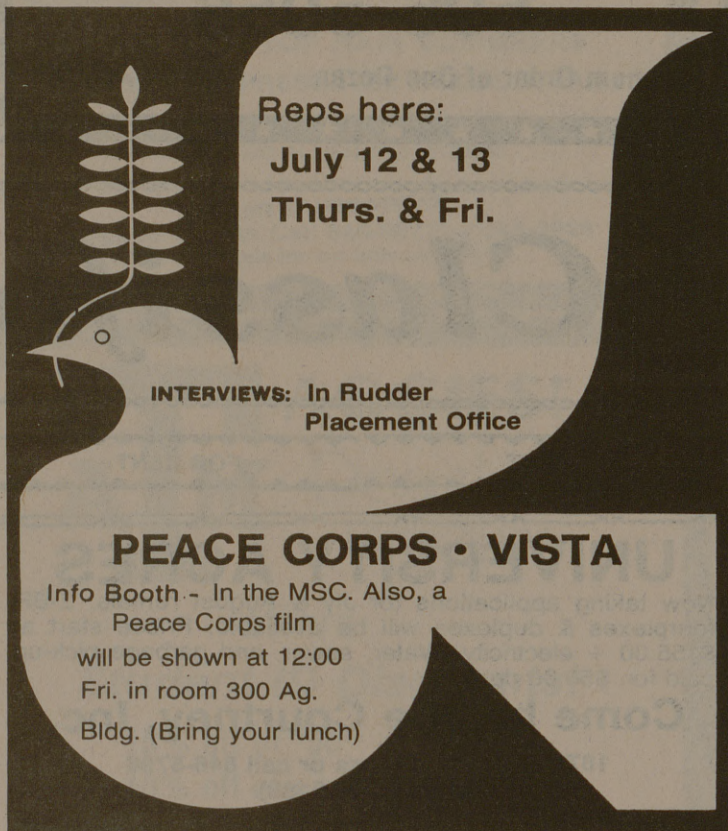
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Governors offer advice to Carter

LOUISVILLE, Ky. — A regular feature of Kentucky Derby week in Louisville is a balloon race. But the biggest ascension of trial balloons in Louisville this year may be the energy proposals floating around the national governors' meeting.

President Carter decided to remain at Camp David instead of speaking to the National Governors Association over the weekend, but he summoned a delegation from the group to his mountaintop retreat and then sent that delegation, along with his wife, Rosalynn, Vice President Walter Mondale and a brace of top White House aides, back to the conference.

It is from them that some outline of what Carter is considering may be emerging.

Stuart Eizenstat, the president's top adviser on domestic policy, arrived declaring Carter would "come out swinging" when he has his energy plan ready. Message: Look for something dramatic.

Budget director James McIntyre, asked if the plan to balance the federal budget by 1981 was still operative, said he would advise postponing that long-held goal if necessary in the interest of dealing with the energy situation. Message: It is going to cost a lot of money.

Both Mondale and McIntyre spoke of energy as a possible source of foreign policy blackmail. Mondale spoke of "the unscrupulous cartel" and "foreign powers who hold our economy hostage." Message: the national security will be invoked.

Mondale, speaking of an all-out technological effort to achieve independence from OPEC, said Americans demand creation of "an Apollo project to create alternative fuel." Message: The White House may try to overtake Congress, which already is working on big plans to develop substitutes for oil.

—McIntyre later said a red tape-cutting "Energy Mobilization Board" patterned after the War Mobilization Board of World War II is being considered. Message: Carter may be looking for a "super agency" to bypass the bureaucratic morass that sprang into life with the Department of Energy.

As always, there was some heavy politicking at the governors' conference. Gov. Ella Grasso of Connecticut, incoming chairman of the Democratic governors, sponsored a resolution endorsing Carter for reelection. It got the votes of 20 governors and one proxy.

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Manor East III
Moonraker
2:35 4:55 7:30 9:55
Rocky II
2:30 4:55 7:20 9:45
THE APPLE DUMPLING GANG
2:25 4:15 5:55 7:45 9:35
Skyway Twin
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PLUS
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EAST
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9:45
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CINEMA 2 ENDS 7/19
THE MAIN EVENT
DAILY
2:35
4:55
7:15
9:35
SOCKO COMEDY
BARBRA STREISAND
RYAN O'NEAL
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