Satellites: spage-age window to see the world

In 1957 I remember sitting in Mrs. White's cience class listening to her commentary on he Russians, Sputnik and the importance of cience education.

too rustains, Sputnik and the importance of science education.

Today more than 30 years later, we are still debating U. Scoviet relations and the decline debating U. Scoviet relations and the decline debating U. Scoviet sold to the state of the second today above the second

TIROS (Felevision Infrared Observation Sat-ellite) is used for weather watching. It records temperature and maps weather development over the entire globe twice each day. Closer to home, SMS (Synchronous Meteora-logical Satellites) monitors the weather in the United States every half-hour around the clock.

This system assists our local weather reporters in getting their forecasts.

Another, GEOS (Geodetic and Earth Observation Satellites), maps the Earth's surface.

LAGEOS (Laser Reflecting Geodetic and Earth Observation Satellite) specifically watches over California's San Andreas Fault, monitoring movement in the Earth's curver a period of years.

SEASAT keeps watch over storms, ice fields and ocean currents as an aid to ships.

LANDSAT, by far the most thrilling of all satellites, has opened up whole new fields of Earth studies.

LANDSAT can spot schools of flah in the

ocean, detect geological formations that indicate oil and mineral deposits, monitor air and water pollution, and even keep track of migrating animals.

Though not the first to launch a satellite, in 1973 the United States plonecred the technology which brought us the LANDSAT system. LANDSAT is a relatively ample satellite. About one ton in weight, it travels around the earth 570 miles above in a circular orbit every 103 minutes.

The satellite is sun-synchronous, so it sweep across the earth at the same local time of day, about 9:30 am. The satellite passes around the world 14 times a day.

As the earth turns beneath the orbiting

space craft, the instruments on board take pic-tures of the successive swaths of ground di-rectly below. Similar to adhesive tape being would not a ball, these swaths of coverage space of the state of the state of the state of the gas being added to the ball every 18 days. Each strip is approximately 18 miles wide.

LANDSAT does not take photographs like a camera. The spacecraft uses an instrument called a Multi-Spectral Scanner. This instru-ment scans the area that lies directly below the spacecraft as it moves along in its orbit, sensing the brightness of sunlight reflected from the earth.

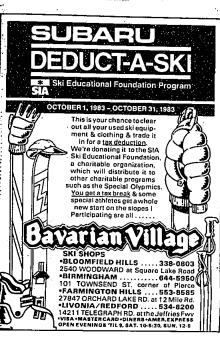
The scanner senses the reflected sunlight in



four different colors, and separate images are converted to voltages and returned to earth as electronic pulser. This data, once received on earth, is corrected for distortion, processed, and stored on lim, computer tape, or disks. By monitoring the intensity of each color, the satellite can distinguish between water, land, concrete, and grass, or healthy and dis-cased vegetation.

LANDSAT can see the difference in ground cover between any two spots on earth as small as the size of a suburban house lot.

LANDSAT can detect in less than 13 seconds what would take an earth-bound traveler years to discover.





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October 13

Mirror, Mirror on the Wall

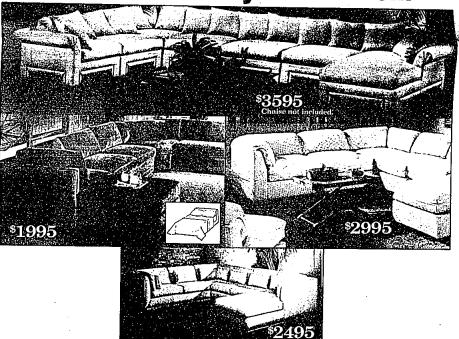
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