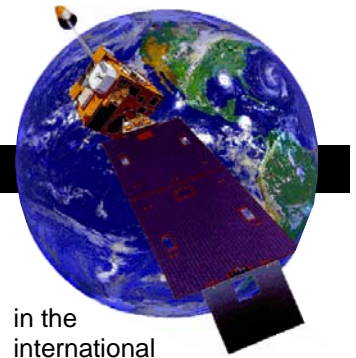
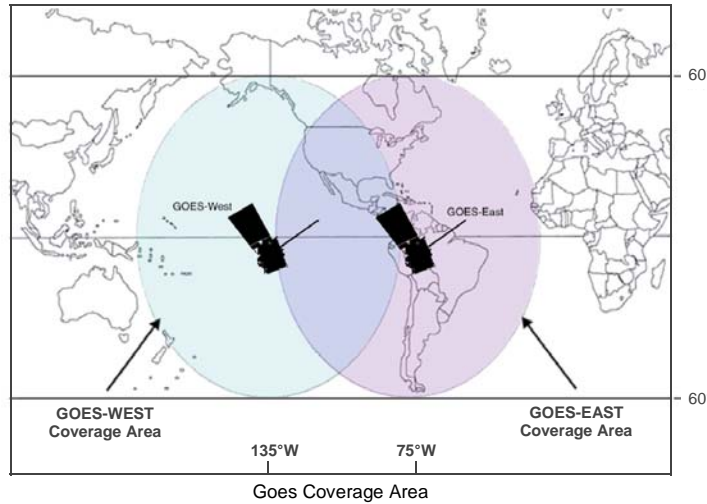


# SUNBURY MUNICIPAL AUTHORITY FLOOD CONTROL

## GOES SATELLITE NETWORK



The Geostationary Operational Environmental Satellite Program (GOES) is a joint effort of NASA and the National Oceanic and Atmospheric Administration (NOAA). GOES is a complex system of weather satellites that provide critical and timely environmental information to meteorologists and emergency management agencies - graphically displaying the intensity, path, and size of storms.



in the international Cospas-Search and Rescue Satellite-Aided Tracking (Sarsat) system.

Currently, the GOES system consists of GOES-12 operating as GOES-East in the eastern part of the constellation at 75° west longitude, and GOES-10 operating as GOES-West at 135° west longitude. These spacecraft assist emergency management agencies observe and predict local weather events, including thunderstorms, tornadoes, fog, flash floods, and other severe weather.

NASA provides launch support and design, engineers, and procures the satellites. After a satellite is launched and checked out by NASA, it is turned over to NOAA for its operations.

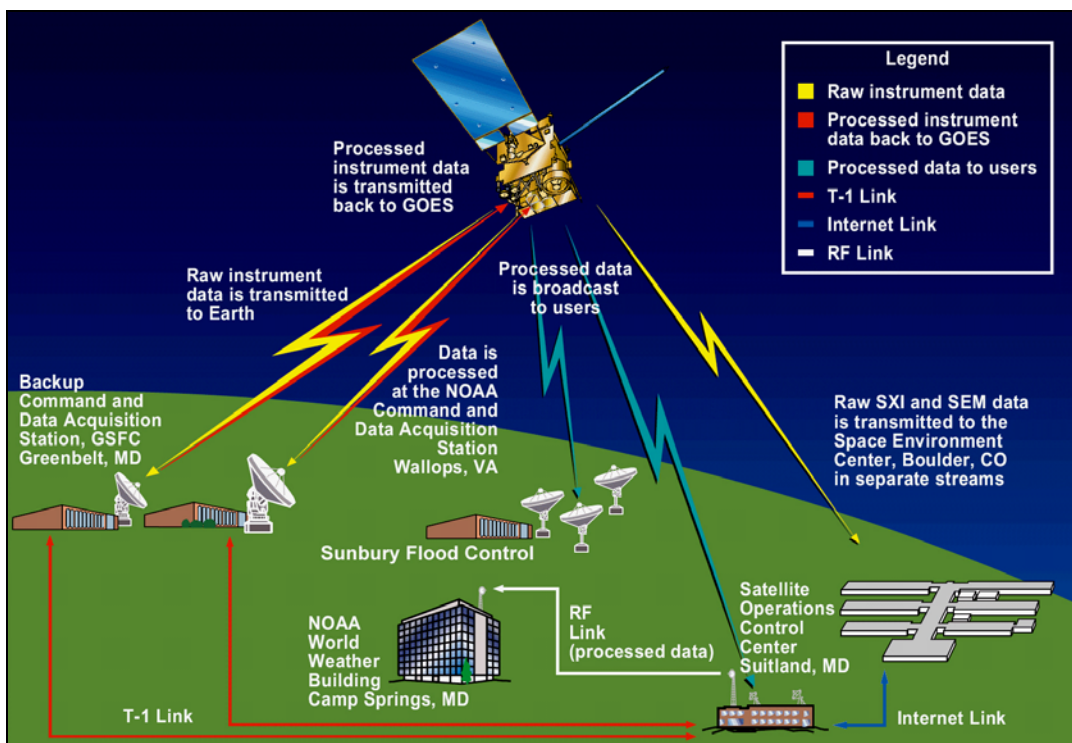
observe 60 percent of the Earth. They measure the Earth's atmosphere, its surface, cloud cover, the solar and geosynchronous space environment and provide a platform for the Imager, Sounder, Solar X-Ray Imager (SXI), and space environment monitoring instruments. The system supports land and

ocean-based Data Collection Platforms (DCPs), transmits Low Rate Information Transmission (LRIT)/Weather Facsimile (WEFAX) and imaging and sounding data between Earth terminals, relays Emergency Managers Weather Information Network (EMWIN) broadcasts, and participates

GOES spacecraft operate as a two-satellite constellation in geosynchronous orbit above the equator and

In 1999, the Sunbury Municipal Authority Flood Control department purchased the necessary equipment to receive forecast data transmitted to ground based receivers via the GOES network. Through the Emergency Managers Weather Information Network (EMWIN), the GOES system provides the Flood Control Department with an uninterrupted stream of nearly 40,000 pages of critical weather and river forecast data daily. Data is transmitted in both text format and graphical images alerting ground based receivers of emerging severe weather patterns, storms and hurricanes.

The system provides the necessary forecast data needed for the Flood Control Department to make critical operational decisions in a flood emergency.



GOES communication system link to the Sunbury Flood Control receiving station