



NPOESS

National Polar-orbiting Operational Environmental Satellite System



The NPOESS Mission is to provide environmental and climatic data to support civilian requirements and military missions. These data will be acquired from low earth polar orbit and down-linked in real-time to field terminals, with stored data distributed to processing centers in near real-time. The data include: global and regional environmental imagery, and specialized meteorological, climatic, terrestrial, oceanographic, solar-geophysical, and other related data.

Civilian Benefits

- **Timely, accurate, and cost-effective public warnings and forecasts of severe weather events, reduce the potential loss of human life and property and advance the national economy**
- **Support of commercial and general aviation, agriculture, and maritime communities aimed at increasing U.S. productivity**
- **Commitment to support long-term data continuity for environmental monitoring and Global Change Assessment**

Military Benefits

- **Shift tactical and strategic focus from “coping with weather” to “anticipating and exploiting” atmospheric, oceanographic, and space environmental conditions**
- **Weather permeates all aspects of military operations. NPOESS data will provide improved situational awareness which is critical to strategic planning and tactical superiority.**

National Benefits

- **Accurate forecasts are critical to the preservation of life, safety, and property.**
- **NPOESS data will improve forecasts and warnings, reducing loss of life and property, and benefit US industry through increased productivity.**
- **NPOESS will provide long-term data continuity for climate monitoring and assessment.**

