

NASA Disaster Management, Building Resilience and Sustainability through Satellite Remote Sensing Applied Science

Stephen Ambrose, Bruce Davis, Shahid Habib

NASA

sambrose@nasa.gov

NASA's Disaster Management program has a broad responsibility to move research results to applied science. The NASA Science Mission Directorate, Applied Sciences Program advances NASA's research to practical applications to provide benefits to society through increased resilience to disasters. Working with NASA's national and international partners, advances in satellite earth observations, models, geospatial data and communications are applied to user community decision support systems. Systems engineering concepts are used to evaluate, verify, validate, and benchmark these results for sustainable development. A broad range of hazards are covered under this program, including geohazards, flood, weather, wildfire, and space weather. This presentation will describe this program, our partnerships, some recent results, both nationally and internationally, and future goals.