## Inflatable Antennas Support Emergency Communication

# NASA

#### **Glenn Research Center**

GATR Technologies Huntsville, Alabama

### **Originating Technology/NASA Contribution**

- NASA launched the first of its inflatable space structures in the form of large, metalized balloons—the Echo satellites, in 1960
- New interest was spurred with the successful deployment of the Inflatable Antenna Experiment during STS-77 in 1996

#### Partnership

- ManTech SRS Technologies received Small Business Innovation Research (SBIR) funding to develop an inflatable solar concentrator; the technology was applicable to inflatable antennas
- GATR licensed the technology from SRS and improved it through a Glenn Space Act Agreement
- The technology won an "R&D 100" Award



#### **Product Outcome**

- Certified by the Federal Communications
  Commission, the ground-based inflatable antennas are transported in two portable cases and can be quickly deployed in remote areas
- GATR provided communications after Hurricane Katrina, wildfires in California, and the 2010 Haiti earthquake