

PDC2017
Tokyo, Japan
IAA-PDC-17-07-02

Disaster Response or Public Education & Communication

Community level Emergency Preparedness for Disasters

– A model to supplement Remote Sensing

Venkataramaiah Jagannatha,

Research Scholar, Civil. Jain University Bengaluru India,
Dy. Manager, Civil SCC CMG ISTRAC ISRO Bengaluru
“Panya Sadana” 173, 3rd A Main D Block 3rd Stage Vijaya Nagara
Mysuru, India 570030
+91-9448050595 e-mail : jagsiobbindia@gmail.com

Keywords: NEO, Casandra-ISU, UNEP-APELL, Remote Sensing, Community Emergency Preparedness

ABSTRACT

Near Earth Objects: NEO are always a challenge for life and ecosystems on Earth (Casandra, ISU). However, Occurrence of disasters have multiplied in numbers and cause untold human miseries and economical and ecological losses. As per UN reports, the frequency of disasters on a yearly basis have increased by over five times in the last one century. The UN International Decade for Natural Disaster Reduction (IDNDR) emphasizes programs to reduce the impact of natural disaster using conventional and advanced technologies. Presently, with twelve satellites in operation, IRS is the largest civilian remote sensing satellite constellation in the world, providing images in a variety of spectral resolutions and swaths to address various types on natural disasters (Srinivasa Rao, 2013). Thus, in India advanced remote sensing technologies using satellite systems have been a self-reliance success story. However, Community Participation is the most essential component of it. UNCED Rio Summit 1992, provided the vision and agenda for sustainable development with a rare in sight on participation as a key to sustainability with community as the focus. Likewise, APELL (Awareness and Preparedness for Emergencies at Local Levels) promulgated by the UNEP in 1988 has provided success story in over 30 countries amongst 80 communities. Over 25 years, APELL has proven to be successful approach for addressing emergency preparedness for industrial accidents, natural disasters and multi- hazard risks, thereby preventing loss of life and significant irreparable health impacts (APELL, UNEP 2012). In this presentation a conceptual partnership program model between local authorities, industries and community using conventional and remote sensing technology for disaster management is introduced. Essential components of strategies for enabling community to take care of its Environment (Caring for earth, UNEP 1992) are discussed. National Institute of Disaster Management experiences in mitigating natural disasters are presented for effective mitigation of disasters.