Applied Remote Sensing Training (ARSET) Program

Cindy Schmidt
Biodiversity and Ecological Forecasting Team Meeting
April 24, 2018
Capacity Building Program Elements

Program Manager: Nancy Searby

**SERVIR:** Building international capacity with hubs in East Africa, Hindu Kush-Himalaya, Mesoamerica, Southeast Asia

**Applied Remote SEnsing Training, ARSET:** Online and hands on basic/advanced training to build skills

**DEVELOP:** Dual workforce/local government capacity building using collaborative feasibility projects, internships
Remote Sensing Capacity Building with Indigenous Peoples

Lead: Cindy Schmidt

In-person remote sensing training, place-based approaches, community engagement, all incorporating Traditional Ecological Knowledge
NASA’s Applied Remote Sensing Training Program (ARSET)

http://arset.gsfc.nasa.gov/

- Empowering the global community through remote sensing training
- Part of NASA’s Applied Sciences Capacity Building Program
- Goal to increase the use of Earth science in decision-making through training for:
  - policy makers
  - environmental managers
  - other professionals in the public and private sector

Topics for Trainings Include:
- Water Resources
- Air Quality
- Disasters
- Eco
ARSET Training Formats

Online
• Offered through the internet
• Available live and recorded
• Typically 4-6 hours long
• Available at all training levels:
  – Fundamentals of Remote Sensing
  – Introductory
  – Advanced

In-Person
• 2-7 days in length
• Held in a computer lab
• Mixture of lectures and exercises
• Locally relevant case studies
• Available levels:
  – Introductory
  – Advanced

Train the Trainers
• Trainings and materials
• Offered online & in-person
• For organizers seeking to develop their own applied remote sensing training programs
ARSET Training Levels

Advanced (Level 2)
Requires level 1 training or equivalent knowledge
In-depth and highly focused topics
Advanced Webinar: SAR Image and Data Processing

Basic (Level 1)
Requires level 0 training or equivalent knowledge
Covers specific applications
Introduction to Synthetic Aperture Radar

Fundamentals (Level 0)
Assumes no prior knowledge of remote sensing
Fundamentals of Remote Sensing
ARSET Trainings


100 trainings
13,000+ participants
150+ countries
3,700+ organizations

NASA’s Applied Remote Sensing Training Program