

Earth System Interaction in Complex Terrain

Other educational initiatives, linked
to ESICT research



Summer School for Instrumentation and Airborne Measurements

- ✓ *“...training opportunities are needed for the next generation of observational atmospheric scientists.”*
NSF Facilities Workshop (2008)
- UW is uniquely positioned to provide training and experience to students with our National Facility
- By attracting high-level undergraduate senior-level students, it provides UW a recruiting tool for graduate students



Summer School for Instrumentation and Airborne Measurements

What is it?

- Three week intensive school that emphasizes a mix of lecture, hands-on, and measurement analyses
- Target senior-level undergraduate students that are likely to pursue advanced degrees
- Small class size (5 students), competitive evaluation process
← link with FoSTER summer school (3 students?)
- 2 schools over the five year period



Summer School for Instrumentation and Airborne Measurements

What is it?

- ...introduce concepts for a variety of airborne/remote sensing measurements: strengths, weaknesses, calibrations, and limitations
- Use the aircraft facility (through request to deployment pool) for flight hours for measurements. Coordinate with ongoing campaigns *to the extent possible*
- Look to develop the next generation of *users* and to return to teaching the science of *how to make (relevant) observations*

Interdisciplinary Degree

Earth System Science



A new interdisciplinary undergraduate degree at UW

- started in Fall 2006
- rigorous foundation in math and physics
- available concentrations: Anthropology, Atmospheric Science, Biology, Botany, Geography, Geology and Geophysics, or Soil Science
- Fall 2008: 41 students majoring in ESS/ESSE
- grassroots effort with little admin support

other ESICT educational initiatives

- ESS Director (AP "lecturer")
 - administrative head & identity of the program
 - responsible for recruitment, advising, teaching ESS1000
- ESS undergraduate fellowships, internships
- Graduate assistantships in support of the proposed field work and data analysis
- support for WYSTEP and SRAP, especially for ESSE (secondary education) majors
 - WYSTEP: Wyoming Science Teacher Education Program
 - SRAP: Summer Research Apprentice Program