TIEE teaching module: Using Large Data Sets to Test New Hypotheses

The Invasive Grass-Fire Cycle in the U.S. Great Basin

Full-day, 7-hour Module:
9:00 – 9:30 AM    Lecture 1: Intro to Fire Ecology & Invasive Plant Species
(end with Think-Pair-Share exercise)

9:30 – 10:30 AM   Lab Exercise PART I: Whisenant 1990 dataset

10:30 – 10:45 AM  Break

10:45 – 11:15 AM  Review Exercise

11:15 - 12:00 PM  Lecture 2: Satellite fire data

12:00 – 1:00 PM   Lunch

1:00 – 3:30 PM    Lab Exercise PART II: Fire and Cheatgrass in the U.S. Great Basin

3:30 – 4:00 PM    Reflections & Evaluations
(end with 1 minute essay, and give optional Take-home essay)

OR Split module into lecture/lab combination:

1 hour    Lecture 1: Intro to Fire Ecology & Invasive Plant Species
(end with Think-Pair-Share exercise)

2-3 hours Lab Exercise PART I: Whisenant 1990 dataset

1 hour    Lecture 2: Satellite fire data (& review Lab Exercise PART I)

2-3 hours Lab Exercise PART II: Fire and Cheatgrass in the U.S. Great Basin

½ hour    Reflections & Evaluations
(end with 1 minute essay, and give optional Take-home essay)

Option Advanced GIS lab

2-3 hours    Advanced GIS Lab Exercise: Fire across vegetation types in the U.S. Great Basin