2017 Climates Past & Future

General Outline

3 days, each with 4 blocks of 90 minutes each

2 blocks morning, separated by 15 minute break

45 minute lunch

2 blocks afternoon, separated by 15 minute break

15 minute eval to close each day

BLOCKS:

Day 1: How the Climate Works

1. Energy & Radiation
2. Greenhouse effect & planetary energy budget
3. Buoyancy, vertical motion, & precipitation
4. Winds & currents

Day 2: Climates of the past

1. Origins & early development of the Earth
2. From oxygen to impact
3. From PETM to Ice Ages
4. From Holocene to Anthropocene

Day 3: Climates of the Future

1. Simple, Serious, & Solvable
2. Simple: forcing, sensitivity, & response
3. Serious: consequences of climate change
4. Solvable: energy, cabin, & economics’’