

# **Lecture 1**

## **Introduction**

# **What Course is This?**

## **FRST 100 Sustainable Forests**

- **Instructor**

**Bruce Larson**

**2301 Forest Sciences Centre**

**Email – [bruce.larson@ubc.ca](mailto:bruce.larson@ubc.ca)**

**604 822-1284**

# **What Are We Doing Today?**

- 1. Go over course mechanics**
- 2. Discuss Sustainable Forests**

# **Objectives for Lecture 1**

- 1. Understand Course Structure**
- 2. Understand Grading**

# **Sustainability**

- **Key pillar of UBC**
- **Global responsibility**
- **Meeting the needs of today and tomorrow**

# Webpage

<http://frst100.forestry.ubc.ca>

# **Course Structure**

- 1. Lectures**
- 2. Readings (blog discussion)**
- 3. Essays**

# Important Dates

- **Essay Draft**                      **Nov 2**
- **Essay Final**                      **Dec 2**
- **Midterm Exam**                      **Oct 24**
- **Final Exam**                      **?**



# Grades

- **Participation (blog)      10 points**
- **Essay draft                      10 points**
- **Essay final                        20 points**
- **Midterm Exam                  20 points**
- **Final Exam                        40 points**

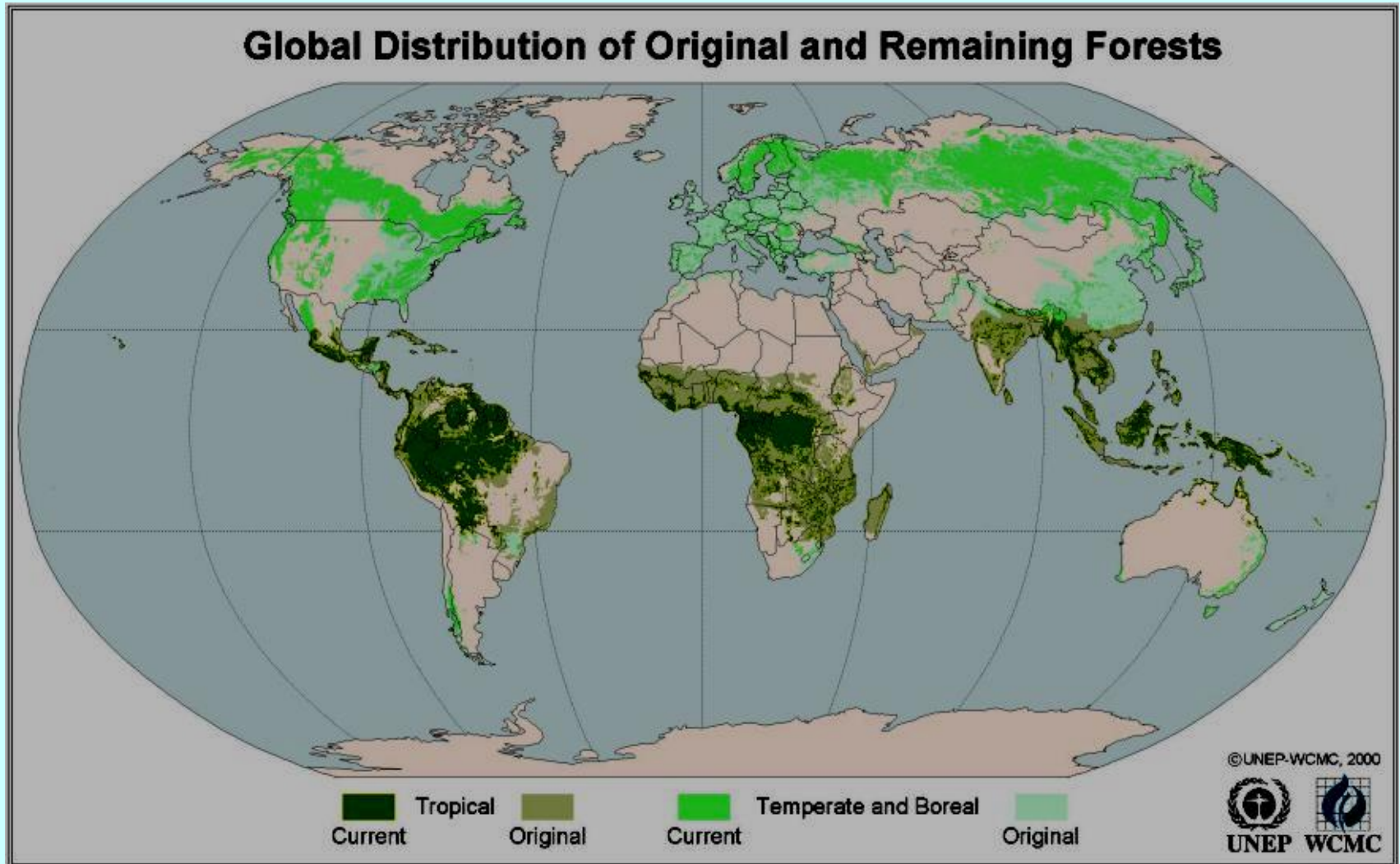
# Goals

- **Explore the roles of forests and forestry and sustainability**
- **Orientation to the Faculty of Forestry**

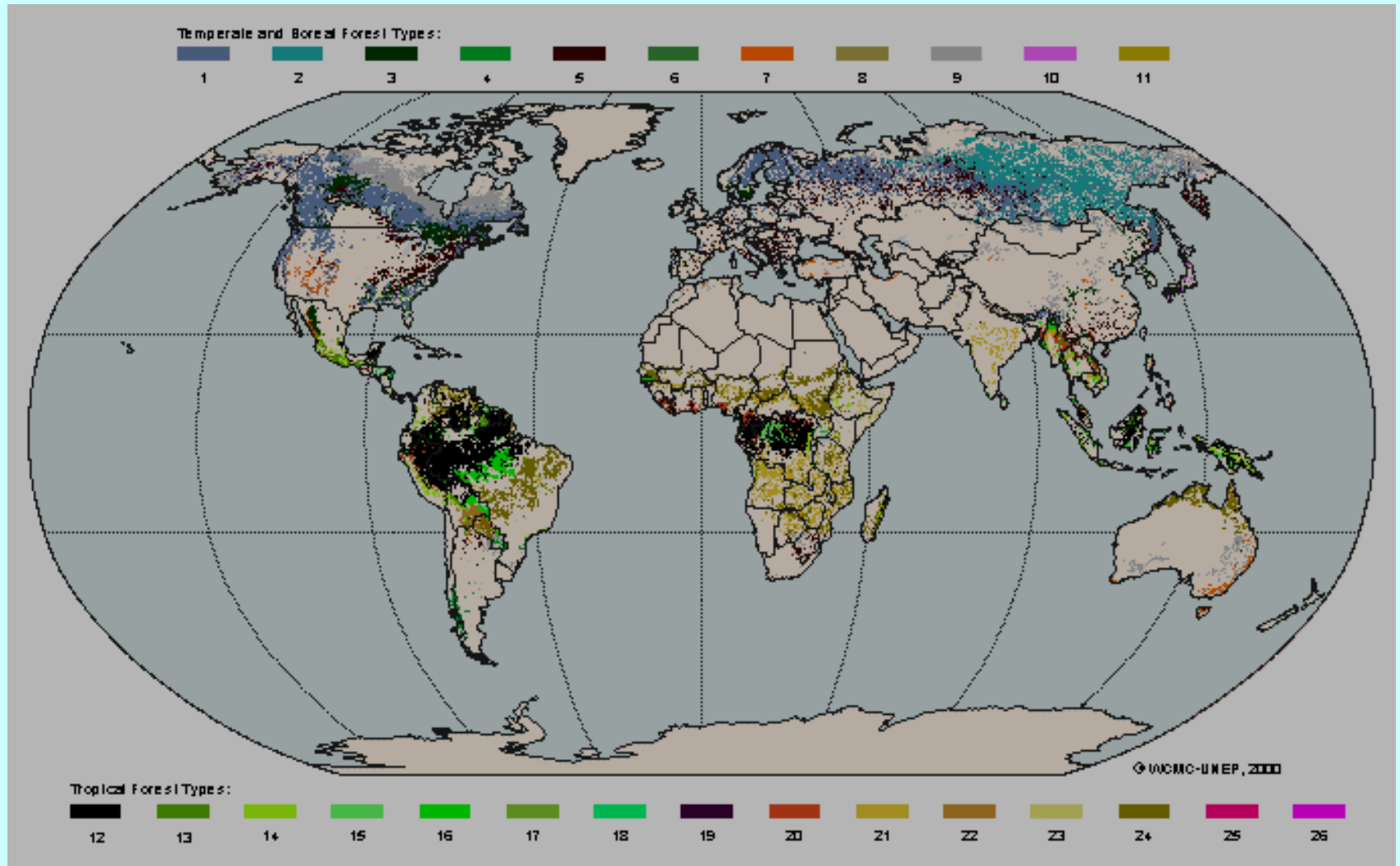
# **Learning Objectives**

- **At the end of the course students should be able to:**
  - **Describe roles of forests and forestry in global sustainability**
  - **Write a basic essay in natural sciences**
  - **Discuss basic issues in the sustainability of forest management**

# World forest cover 1000 years ago



# Current world forest cover



# **Forestry is Important**

- **Forests are the natural climax vegetation on more than half of the world's land surface.**
- **The world's forest area is about 3.8 billion ha.**
  - **About one third of world's land area which is not covered with ice.**
- **Canada: 7% of world's forest land area.**
- **BC: 1.7% of the world's forest land area.**



**Faculty of Forestry  
University of British Columbia**

# Protectors of the Forest (Ross and Karen Hunt)

- **The Black Bears** represent the indigenous people trying to protect the tree and all the natural resources that depend on it.
- **The Eagle** shows the connection between the water and the roots of the tree and how important the watersheds are to all living things.
- **The Salmon** shows the connection between the water and the roots of the tree and how important the watersheds are to all living things.



- **The connection** from the eagle to the salmon creates the Circle of Life and the power of the sun.
- **The Tree of Life** shows five branches on each side. This represents the Five Elements of Earth: Wind, Fire, Minerals, Water and Air.
- **Between the roots and the salmon** is the medicine wheel with the four directions. This represents the various homelands of the students who come to this place for the teachings in forestry and conservation to become like the Bear, “Protectors of the Forest”







- **What are forests?**
- **What is forestry?**

# **What is Sustainable?**