

Ice Age Floods and the Landscape They Created
HILR Study Group for Fall, 2021
Stephen Senturia, Study Group Leader

Assignment for Session 4

Class Topics:

- A tour of Glacial Lake Missoula
- Ripples
- Pardee's observations of giant ripples
- The implications for Bretz's Flood
- An overview video will be shown in class

Textbook:

- > Read in Allen, Burns and Burns: *Cataclysms on the Columbia*, Chapters 10 and 11, pp. 66 – 74.
Chapters 14-16, pp. 94 – 111.

Documents Posted on the Course Website:

- > **Press, Chapter 14 Excerpt**, Read the short section entitled Bed Forms: Dunes and Ripples that starts on p. 306.

Internet:

You have **three internet assignments** this week:

- > <http://www.detectingdesign.com/harlenbretz.html> -- Bretz and Pardee – The Role of Ripples (good photos to go with the summary text)
- > http://en.wikipedia.org/wiki/Ripple_marks -- somewhat technical, but it will provide background for our study of ripples in class.
- > Page 111 of the text identifies several places where there are ripple marks and kolk lakes (big potholes). Use Google Maps in satellite view to see if you can identify any of these features. It can be frustrating, but we will also do this in class, so don't worry...