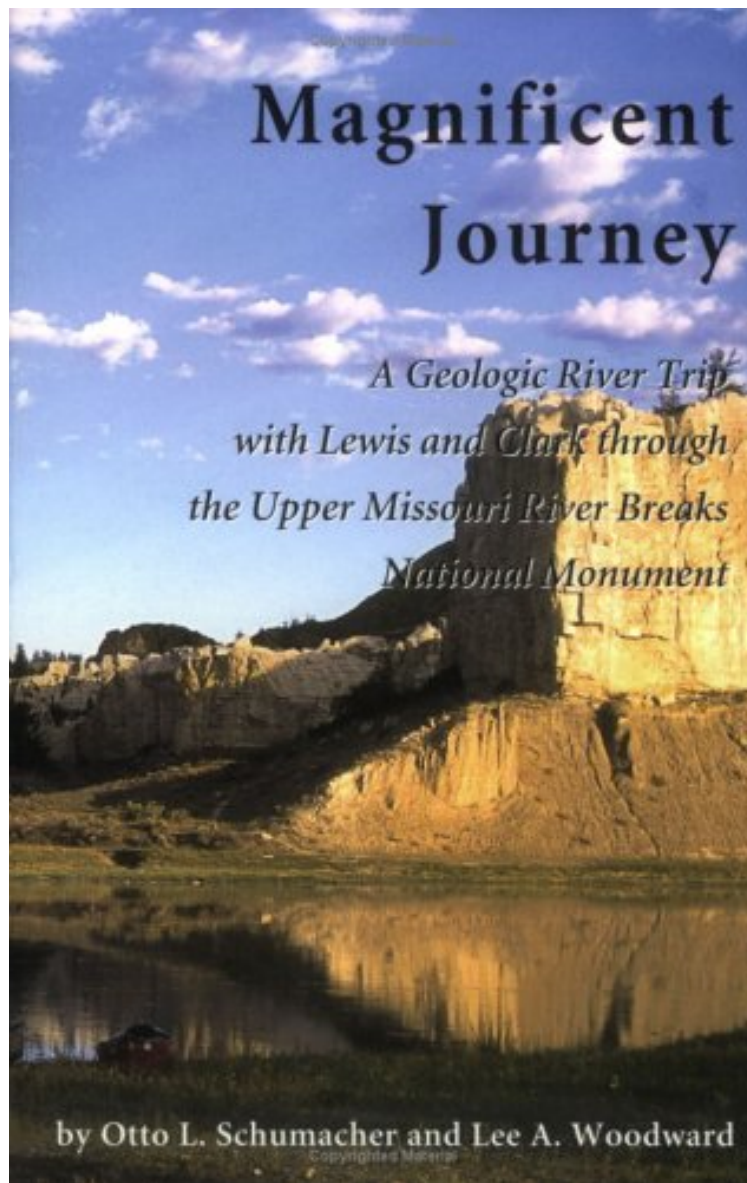


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## **Magnificent Journey, A Geologic River Trip with Lewis and Clark through the Upper Missouri River Breaks National Monument**

*Otto L. Schumacher, Lee A. Woodward*  
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**Otto L. Schumacher, Lee A. Woodward : Magnificent Journey, A Geologic River Trip with Lewis and Clark through the Upper Missouri River Breaks National Monument** before purchasing it in order to gage whether or not it would be worth my time, and all praised Magnificent Journey, A Geologic River Trip with Lewis and Clark

through the Upper Missouri River Breaks National Monument:

Paddle your canoe alongside two modern day geologists as they explore Meriwether Lewis' "seens of visionary enchantment" through Montana's most scenic and least disturbed segment of the Lewis and Clark trail. Share Lewis' romantic view of the river valley, but broaden your vision to include an appreciation for the manner in which geologic processes have conspired to lay the foundation for its stark beauty, its rich history, and its flora and fauna. Consider why the rocks used by early Indians to hold down their teepee skins are unlike any that crop out anywhere within hundreds of miles; why the spectacular White Cliffs stretch of the river is so much more rugged than other stretches; and why rapids with ominous names like "Deadman Rapids" developed to bedevil river travelers. *Magnificent Journey* uses nontechnical language to tell its story in a way that will appeal to Lewis and Clark enthusiasts, river travelers, and anyone else who shares an interest in the natural and cultural history of the Missouri River Breaks of central Montana.

**About the Author**The authors are both practicing geologists. Otto Schumacher was educated at the University of Minnesota and the University of New Mexico. He was part of the Bureau of Land Management team that helped facilitate establishment of the "Wild and Scenic" designation for the upper Missouri River and he now operates a consulting business in Spokane, Washington. Lee Woodward, Professor Emeritus of Earth and Planetary Sciences at the University of New Mexico was educated at the University of Montana and the University of Washington. He has published numerous articles concerning Montana geology and is well-known for leading field trips to areas of geologic interest.