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Publication Date

2004-12-01

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Carbon dioxide transport over complex terrain

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Abstract

The nocturnal transport of carbon dioxide over complex terrain was investigated. The high carbon dioxide under very stable conditions flows to local low-ground. The regional drainage flow dominates the carbon dioxide transport at the 6 m above the ground and carbon dioxide was transported to the regional low ground. The results show that the local drainage flow was sensitive to turbulent mixing associated with local wind shear.

Additional Publication Details

Publication type:	Conference Paper
Publication Subtype:	Conference Paper
Title:	Carbon dioxide transport over complex terrain
Year Published:	2004
Language:	English
Larger Work Title:	26th Conference on Agricultural and Forest Meteorology
First page:	29
Last page:	32
Conference Title:	26th Conference on Agricultural and Forest Meteorology
Conference Location:	Vancouver, BC
Conference Date:	23 August 2004 through 26 August 2004

Accessibility(http://www.usgs.gov/laws/accessibility.html) FOIA(http://www.usgs.gov/foia/)
Privacy(http://www.usgs.gov/laws/privacy.html) Policies and Notices(http://www.usgs.gov/laws/policies_notices.html)
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Page Last Modified: March 12, 2012 17:20:25