A Nested Micro-Scale Simulation of a Lake Michigan Land-Breeze Front
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Introduction
In part of the also induced boundary experiments, LES (LES) in 12 December 1997, the University of Illinois and University Volume Lidar (UW-VIL) show a micro-scale land breeze configuration. The UW-VIL data allowed for the investigation of the micro-scale land breeze configuration, which has been observed in previous lower-resolution LES experiments. The UW-VIL data showed that the land breeze configuration is a result of the thermal differences between the lake and the land. The UW-VIL data also showed that the land breeze configuration is a result of the thermal differences between the lake and the land.

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The Synoptic Picture

The University Of Wisconsin Volume Imaging Lidar (UW-VIL)
The UW-VIL data were collected during a micro-scale simulation of a Lake Michigan land-breeze front. The UW-VIL data were collected at 50 m resolution and were analyzed with the analysis software to create the plots and the images.

Positioning of the 6 Nested Grids

The grid positions of the six nested grids are in the middle. The UW-VIL data were collected at 50 m resolution and were analyzed with the analysis software to create the plots and the images.

The 6 Grids were set to use the UW-VIL data in the middle. The UW-VIL data were collected at 50 m resolution and were analyzed with the analysis software to create the plots and the images.

6th Grid (32 m resolution) Output

Comparison With Lidar Imagery

This is a comparison of the model output with the lidar data for a micro-scale land-breeze front. The lidar data were collected at a resolution of 5 m and were analyzed with the analysis software to create the plots and the images.

Acknowledgements

This work was made possible by the following parties: ONR (Dr. Kevin L. Dwyer and Dr. Reuven). This work was also made possible by the following parties: ONR (Dr. Kevin L. Dwyer and Dr. Reuven). This work was also made possible by the following parties: ONR (Dr. Kevin L. Dwyer and Dr. Reuven). This work was also made possible by the following parties: ONR (Dr. Kevin L. Dwyer and Dr. Reuven). This work was also made possible by the following parties: ONR (Dr. Kevin L. Dwyer and Dr. Reuven).