EFFECT OF TOPOGRAPHY IN INDUCING LAND SEA BREEZE CIRCULATION

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A two dimensional model which is based on time dependent primitive equations which was developed to simulate the localized flow over an isolated island (Dewundege, P. 1990) was applied to study the effect of topography in inducing sea-land breeze circulation.

The model was run with and without topography and the results were compared to study the effect of topography.

The comparison indicates that the nature and the development of the land-sea breeze are practically identical except for some quantitative differences. But weaker convergence zones could be seen over both slopes.

The land breeze convergence which develops at the foor of the mountain can be noted as the effect of topography.

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