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Abstract:

Considerable research on the island-scale weather and climate over the Island of Hawaii and coastal waters has been done after the Hawaiian Rainband Experiment (HaRP) in 1990. This research seeks to improve our basic understanding of island-

. Specifically, utilizing high-resolution modeling in conjunction with global analyses, surface observations, radar and satellite data, this study focus on the following areas.

1. Wake circulations and cloudiness under different trade wind strengths.