UNIVERSITY of HAWAI'I MĀNOA

Department of Atmospheric Sciences Seminar Announcement

Department of Atmospheric Sciences, S.O.E.S.T., University of Hawai'i at Mānoa
2525 Correa Road, HIG 350; Honolulu, HI 96822 ☎956-8775

SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY

A brief review of westerly wind bursts

Lintong Cai
Masters Candidate
Department of Atmospheric Sciences
School of Ocean and Earth Science and Technology
University of Hawai'i at Mānoa

Date: **Wednesday, February 24, 2021**
Time: **3:30pm HST**
Zoom Meeting: **https://zoom.us/j/93583080682**
Meeting ID: 935 8308 0682
Passcode: 6daVMR

Abstract:

Westerly wind bursts (WWBs) are characterized by a sudden increase in westerlies from the sea surface to the mid-troposphere over the western–central equatorial Pacific. Previous studies reported that WWBs can be associated with tropical cyclones, cold surges, and the Madden–Julian oscillation (MJO), and El Niño. Because of the large variability of WWBs in strength, duration, structure, and location, and their complex interaction with tropical atmospheric convection, it is difficult to associate them with any single phenomenon and there is yet no clear consensus on their mechanism. In this seminar, different detection methods of WWBs and the relationship with their associated atmospheric phenomena are briefly reviewed.