

# Estimating 3-second and maximum instantaneous gusts from 1-minute sustained wind speeds during a hurricane

**S.A. Hsu**

*Coastal Studies Institute, Louisiana State University, Baton Rouge, Louisiana, USA*

---

## **ABSTRACT**

*Formulas for estimating 3-second and maximum instantaneous gusts from 1-minute sustained mean wind speeds are derived for operational applications. These formulas are verified by measurements recorded during Hurricanes Katrina and Rita.*

---