A Surprise in the North Pacific: Results from Applying a New Nonlinear Method for Calibrating Ice Cores



Eric Kelsey¹²³, Cameron Wake¹, Erich Osterberg⁴ and Karl Kreutz⁵

¹Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, Durham, NH, ²Dept. of Atmo. Sci. and Chem., Plymouth State University, Plymouth, 1 ³Mount Washington Observatory, Gorham, NH, ⁴Dept. of Earth Science, Dartmouth College, Hanover, NH, ⁵Climate Change Institute, University of Maine, Orono, ME ¹Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, Durham, NH, ²Dept. of Atmo. Sci. and Chem., Plymouth State University, Plymouth, NH

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km²) are considered to have a significant SLP anomaly signal Eclipse accumulation and Mt. Logan [Na⁺] are the only variables associated with a significant SLP anomaly pattern

•The groups associated with significant SLP anomaly patterns were used to reconstruct these SLP anomaly patterns

Motivation

Fig. 4. Mean DJFM sea-level p sure (SLP) for 1872-2008 b iodel-derived data⁹. SLP anomalies calculated sted using this mean. The solid black circle he Eclipse and Mt. Logan ice core sites. Figures 4-7 are cal

Grav dashed line encloses statistically significant SLP anomalies (p<0.05)

types of cyclones and anticyclones that are responsible for these ice core signals, especially high accumulation at Eclipse

•Use these results to constrain error bars on the Osterberg et al. (in review)¹ reconstruction of Aleutian Low strengt •Perform this new calibration on North Atlantic ice cores

Contact: e.kelsey@plymouth.edu