



Figure 1: A new network of tree-ring cellulose oxygen isotopic ratios from Japan (Nakatsuka et al., unpublished). Correlation coefficients between the tree-ring cellulose $\delta^{18}\text{O}$ and monthly mean relative humidity observed at meteorological stations (stars) close to the sample sites during recent 50 years show that tree-ring cellulose $\delta^{18}\text{O}$ has a clear negative correlation with relative humidity during its growing season. This indicates that tree-ring $\delta^{18}\text{O}$ can be a useful proxy of summer monsoon activity in Japan. Due to reduced sensitivity of tree-ring width to moisture, it is difficult to reconstruct Japanese summer hydroclimate based on traditional dendrochronological methods. Thus tree-ring cellulose $\delta^{18}\text{O}$ provides a new option, and will be important in contributing to Japanese records for the PAGES Asia 2k reconstruction Working Group.

ence to the PAGES SSC and enhance the collaboration between the Japanese and international paleoscience communities.

84 scientists and students, including the international scientists from the PAGES SSC, attended this workshop with 21 oral and 47 poster presentations. Oral sessions consisted of keynotes by SSC members to introduce PAGES 4 scientific Foci and Cross-Cutting Themes (CCTs), followed by presentations by Japanese paleoscientists on recent research activities relating to each Focus or CCT. All fields of paleosciences were represented in this workshop, demonstrating that in Japan there is a full lineup of paleoscience research, corresponding to all of PAGES activities. Af-

ter a brief introduction to PAGES science (T. Kiefer), two topics relating to Focus 4 (Human-Climature-Ecosystem Interactions: J. Dearing) were presented, highlighting the impact of preindustrial cultivation upon Asian monsoon climate (T. Yasunari) and the historical human-nature interactions in Japanese Archipelago (T. Yumoto). After lunch, several topics within Focus 2 (Regional Climate Dynamics: H. Wanner) and CCT 2 (Proxy Development, Calibration and Validation: F. Abrantes) were presented, including IMAGES research around Japan (H. Kawahata), Himalayan glaciers and ice cores (K. Fujita), NW Pacific coral records in the early 20th century (A. Suzuki), tree-ring oxygen isotopic network

in Japan (T. Nakatsuka; Fig.1 shown just as an example of ongoing research in Japan), and Japanese documentary based paleoclimate studies (M. Zaiki). The next morning followed on from lively discussions between Japanese scientists and SSC members at an evening reception, with two sessions, relating to Focus 1 (Climate Forcings: B. Otto-Bliesner, C. Whitlock) and CCT 3 (Modeling: B. Otto-Bliesner). Presentations included topics of Holocene sea level changes (Y. Yokoyama), impacts of historical solar activity on climate change (H. Miyahara), and perspectives on glacial-interglacial modeling in Japan (A. Abe-Ouchi). Finally, in the afternoon, Focus 3 (Global Earth-System Dynamics: T. Kiefer) and CCT1 (Chronology: P. Francus, S. Colman, C. Turney) were covered with presentations on Dome Fuji ice core analyses (K. Kawamura), millennial-scale Asian monsoon dynamics (R. Tada), North Pacific overturning at the last glacial termination (Y. Okazaki), and *Emiliania huxleyi* blooming and global geochemical cycles (N. Harada).

Oral and poster presentations by Japanese paleoscientists not only demonstrated the high level of their academic findings but also suggested the potential for international contributions in the near future. As a result of this workshop, it was shown that Japanese paleoscience is of a high international level and efforts should be made for better integration of Japanese paleoscientists, and for Japanese young paleoscientists to enhance their international contributions, even though isolated circumstances, such as the "Galapagos Island" effect, may continue produce some unique creatures or some unique science...



PAGES Calendar 2010/2011

3rd Past Interglacials (PIGS) Workshop

20 - 22 Oct 2010 - New York, USA
<http://www.pages-igbp.org/calendar/>

PAGES Arctic 2k Workshop

11 - 12 Dec 2010 - San Francisco, USA
<http://www.pages-igbp.org/calendar/>

Land-cover reconstructions in the monsoon affected tropical world - pollen modeling approach and data synthesis

27 - 29 Jan 2011 - Puducherry, India
<http://www.pages-igbp.org/calendar/>

3rd EAQUA Workshop

8 - 13 Feb 2011 - Zanzibar, Tanzania
<http://www.pages-igbp.org/calendar/>

18th INQUA Congress

20 - 27 Jul 2011 - Bern, Switzerland
<http://www.inqua2011.ch/>

2nd Workshop of PAGES Regional 2k Initiative

28 July 2011 - Bern, Switzerland
<http://www.pages-igbp.org/calendar/>