

## Publication list of T. Koike (070619)

### Original paper:

> 2007

- (1) Koike, T. Uemura, S., Shibata, H. and Sasa, K. (2007) Conservation of the Mixed Conifer-Broadleaf Forests and Educational Development of Hokkaido University Forests in Northern Japan. Sustainability Science (accept for publication)
- (2) Kitaoka S., Watanabe Y., Maruyama Y., Kitao M., Tobita H. and Koike T. (submitted) Effects of the drought during leaf expanding on the photosynthetic traits of deciduous broad-leaved tree seedlings, *Prunus sibirica* and *Carpinus cordata*
- (3) Kitaoka S., Matsuki S., Tobita H., Kitao M., Maruyama Y. and Koike T. (submitted) Photosynthetic nitrogen allocation pattern of four seral deciduous broad-leaved tree seedlings grown under two levels of [CO<sub>2</sub>]
- (4) Kitaoka, S., Sakata, T., Koike, T., Tobita, H., Uemura, A., Kitao, M., Maruyama, Y., Sasa, K. and Utsugi, H. (in press) Methane emission from leaves of larch, birch and oak saplings grown under elevated CO<sub>2</sub> in northern Japan - A preliminary study-. J. Agr. Met.
- (5) Kitaoka, S., Watanabe, Y. and Koike, T. (200?) Effects of canopy opening and nitrogen supply on light use in four seral deciduous broad-leaved tree seedlings growing in larch plantations. Tree Physiology (accept for after revision)
- (6) Kayama, M., Kitaoka, S., Choi, D.S. Wang, W. and Koike, T. (2007) Needle longevity and growth characteristics of eight spruce species planted in northern Japan. Tree Physiology (in press)
- (7) Koike, T., Kitaoka, S., Masyagina, O.V., Watanabe, Y., Ji, D.H., Maruyama, Y. and Sasa, K. (2007) Nitrogen dynamics in leaves of deciduous broad-leaved tree seedlings grown in a unmanaged larch plantation in northern Japan. Eurasian Journal of Forest Research 10: 115-119.
- (8) Kitao, M., Lei, T.T., Koike, T., Kayama, M., Tobita, H. and Maruyama, Y. (2007) Interaction of drought and elevated CO<sub>2</sub> concentration on photosynthetic down-regulation and susceptibility to photoinhibition in Japanese white birch seedlings grown under limited N availability. Tree Physiology 27: 727-735.
- (9) Shinano, T., Yamamoto, T., Tawaraya, T., Tadokoro, M., Koike, T. and Osaki, M. (2007) Effects of enriched CO<sub>2</sub> levels on the nutrient uptake characteristics of *Larix Kaempferi*. Tree Physiology, 27: 97-104.
- (10) Zyryanova, O.A., Yabarov, V.T., Tchikhacheva, T.L., Koike, T., Makoto, K., Matsuura, Y., Satoh, F., and Zyryanova, V. I. (2007) The structure and biodiversity after fire disturbance in *Larix gmelinii* (Rupr.) Rupr. forests, northeastern Asia. Eurasian Journal of Forest Research 10: 19-29.
- (11) Kayama, M., Choi, D.S., Nomura, M., Sasa, K., Satoh, F. and Koike, T. (2007) Reforestation trial with Sakhalin spruce after forest fires in northern Japan. Eurasian Journal of Forest Research 10: 31-39.
- (12) Makoto, K., Nemilostiv, Y.P., Zyryanova, O.A., Kajimoto, T., Matsuura, Y., Yoshida, T., Satoh, F., Sasa, K. and Koike, T. (2007) Regeneration after forest fires in mixed conifer broadleaved forests of the Amur region in Far Eastern Russia: the relationship between species specific traits against fire and recent fire regimes. Eurasian Journal of Forest Research 10: 51-58.

- (13) Makoto, K. and Koike, T. (2007) Effects of nitrogen supply on photosynthetic and anatomical changes in current-year needles of *Pinus koraiensis* seedlings grown under two irradiances. *Photosynthetica* 45:99-104

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- (14) Yanagihara, Y., Shibata, H., Matsuura, Y. and Koike, T. (2006) Effects of soil and vegetation types on soil respiration rate in larch plantations and a mature deciduous broadleaved forest in northern Japan. *Eurasian Journal of Forest Research* 9:79-95.
- (15) Koike, T., Matsuki, S., Choi, D.S., Matsumoto, T. Watanabe, Y. and Maruyama, Y. (2006) Photosynthesis, leaf longevity and defense characteristics in trees of Betulaceae planted in Northern Japan. *Eurasian Journal of Forest Research* 9: 69-78.
- (16) Kajimoto, T., Matsuura, Y., Osawa, A., Abaimov, A.P., Zyryanova, O.A., Mori, S. and Koike, T. (2006) Size-mass allometry and biomass allocation of two larch species growing on the continuous permafrost region in Siberia. *Forest Ecology and Management* 222:314-325.
- (17) Choi, D.S., Kayama, M., Jin, H.O., Lee, C.H., Izuta, T. and Koike, T. (2006) Growth and photosynthetic responses of two pine species (*Pinus koraiensis* and *Pinus rigida*) in a polluted industrial region in Korea. *Environmental Pollution* 139:421-432
- (18) Wang, W., Y.G. Zu, X.Q. Zhang, X.Y. Li, T. Hirano and T. Koike (2006) Newly-formed photosynthates and the respiration rate of girdled stems of Korean pine (*Pinus koraiensis* Sieb. et Zucc.) . *Photosynthetica* 43: 147-150.
- (19) Kitao, M., Lei, T.T., Koike, T., Tobita, H. and Maruyama, Y. (2006) Tradeoff between shade adaptation and mitigation of photoinhibition in leaves of *Quercus mongolica* and *Acer mono* acclimated to deep shade. *Tree Physiology* 26: 441-448.
- (20) Koike, T., Tobita, H., Shibata, T., Mastuki, S., Konno, K., Kitao, M., Yamashita, N. and Maruyama, Y. (2006) Defense characteristics of seral deciduous broad-leaved tree seedlings grown under differing levels of CO<sub>2</sub> and nitrogen. *Population Ecology* 48: 23-29.
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- (22) Masyagina O.V., Hirano T., Ji D.H., Choi D.S., Qu L., Fujinuma Y., Sasa K., Matsuura Y., Prokushkin S.G., and Koike T. (2006) Effect of spatial variation of soil respiration rates following disturbance by timber harvesting in a larch plantation in northern Japan. *Forest Science and Technology* 2: 80-91.
- (23) Kujansuu, J., Yasue, K., Koike, T., Abaimov, A.P., Kajimoto, T., Takeda, T., Tokumoto, M. and Matsuura, Y. (2006) Climatic responses of tree-ring widths of *Larix gmelinii* growing on the contrasting north-facing and south-facing slopes in central Siberia. *Journal of Wood Science* DOI10.1007/s10086-006-0837-9.
- (24) Kujansuu, J., Yasue, K., Koike, T., Abaimov, A.P., Kajimoto, T., Takeda, T., Tokumoto, M. and Matsuura, Y. (2007) Responses of ring widths and maximum densities of *Larix gmelinii* to climate in contrasting north- and south-facing slopes in central Siberia. *Ecological Research* DOI10.1007/s11284-006-0062-4
- (25) Matsuki, S. and Koike, T. (2006) Comparison of leaf lifespan, photosynthesis and defensive traits across seven species of deciduous broad-leaf tree seedlings.

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- (30) Kayama, M., Choi, D.S., Tobita, H., Utsugi, H., Kitao, M., Maruyama, Y., Nomura, M. and Koike, T. (2006) Comparison of growth characteristics and tolerance to serpentine soil of three ectomycorrhizal spruce seedlings in northern Japan. *Trees Structure and function* 20: 430-440
- (31) Wang, W., Endo, I., Watanabe, Y., Ji, D.H. and Koike, T. (2006) Seasonal change in the photosynthetic capacity of cones at the canopy of Japanese larch trees. *Photosynthetica* 44: 344-348.
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