

2.4 List of Publications, Presentations and Reports

(1) Publications (Apr. 2006 - Mar. 2007)

1) International Journals / book

Subdivision of Natural Environment

Munkhtsetseg, E., Kimura, R., Wang, J. and Shinoda, M. (Jan. 2007): Pasture yield response to precipitation and high temperature in Mongolia, *Journal of Arid Environments*, 70, 94-110.

Liu, Y., Hiyama, T., Kimura, R. and Yamaguchi, Y. (Aug. 2006): Temporal influences on Landsat-5 Thematic Mapper image in visible band, *International Journal of Remote Sensing*, 27, 3183-3201.

Subdivision of Water Resources

Adel Zeggaf, T., Anyoji, H., and Yasuda, H. (Mar. 2006): Fixed and variable light extinction coefficients for estimating plant transpiration and soil evaporation under irrigated maize, *Agricultural Water Management*, 84 (1-2), 186-192.

Dehghanisani, H., Agassi, M., Anyoji, H., Yamamoto, T., Inoue, M. and Eneji, A. E. (Jun. 2006): Improvement of saline water use under drip irrigation system, *Agricultural Water Management*, 85, 233-242.

Ould Ahmed, B. A., Yamamoto, T., Rasiyah, V., Inoue, M. and Anyoji, H. (Nov. 2006): The impact of saline water irrigation management options in a dune sand on available soil water and its salinity, *Agricultural Water Management*, 88, 63-72.

Dehghanisani, H., Naseri, A., Anyoji, H. and Eneji, A.E. (Mar. 2007): Effect of deficit irrigation and fertilizer use on vegetative growth of drip irrigated cherry trees, *Journal of Plant Nutrition*, 30(3), 411-425.

Wang, K., Zhang, R. and Yasuda, H. (Sep. 2006): Characterizing heterogeneity of soil water flow by dye infiltration experiments, *Journal of Hydrology*, 328, 559-571.

Subdivision of Plant Ecophysiology

An, P., Inanaga, S., Zhu, N., Li, X., Fadul, H.M., Mars, M. (Mar. 2007): Plant species as indicators of the extent of desertification in four sandy rangelands, *African Journal of Ecology*, 45, 94-102.

Eltayeb, A.E., Kawano, N., Badawi, G.H., Kaminaka, H., Sanekata, T., Morishima, I., Shibahara, T., Inanaga, S. and Tanaka, K. (May 2006): Enhanced tolerance to ozone and drought stresses in transgenic tobacco overexpressing dehydroascorbate reductase in cytosol, *Physiologia Plantarum*, 127, 57-65.

Gama, P.B.S., Inanaga, S., Tanaka, K. and Nakazawa, R. (Jan. 2007) Physiological response of common bean (*Phaseolus vulgaris* L.) seedlings to salinity stress, *African Journal of Biotechnology*, 6(2), 79-88.

Ito, K., Tanakamaru, K., Morita, S., Abe, J. and Inanaga, S. (Jun. 2006): Lateral root development, including responses to soil drying, of maize (*Zea mays*) and wheat (*Triticum aestivum*) seminal roots, *Physiologia Plantarum*, 127, 260-267.

Li, W.Q., Liu, X.J., Mao, R.Z., An, P., Qiao, H.L., Huang, W. and Li, Z.G. (Apr. 2006): Advances in plant seed dimorphism (or polymorphism) research, *Acta Ecologica Sinica*, 26 (4), 1234-1242 (in Chinese)

with English summary).

- Li, X.J., An, P., Inanaga, S., Eneji, A.E. and Tanabe, K. (Aug. 2006): Salinity and defoliation effects on soybean growth, *Journal of Plant Nutrition*, 29, 1499-1508.
- Nakazawa, R., Tomemori, H., Hirano, A., Mochizuki, H., An, P., and Inanaga, S. (Aug. 2006): Effects of the application of porous glass material treated with phosphate on the growth of tomato plants and the phyto-available phosphate in soil, *Soil Science and Plant Nutrition*, 52, 540-544.

Subdivision of Plant Production

- Ito, T., Miura, N., Lhagvasuren, B., Enkhbileg, D., Takatsuki, S., Tsunekawa, A. and Jiang, Z. (Jul. 2006): Satellite tracking of Mongolia gazelles (*Procapra gutturosa*) and habitat shifts in their seasonal ranges, *Journal of Zoology*, 269, 291-298.
- Ouk, M., Basnayake, J., Tsubo, M., Fukai, S., Fischer, K.S., Cooper, M. and Nesbitt, H. (Mar. 2006): Use of drought response index for identification of drought tolerant genotypes in rainfed lowland rice, *Field Crops Research*, 99, 48-58.
- Ouk, M., Basnayake, J., Tsubo, M., Fukai, S., Fischer, K.S., Kang, S., Men, S., Thun, V. and Cooper, M. (Oct. 2007): Genotype-by-environment interactions for grain yield associated with water availability at flowering in rainfed lowland rice, *Field Crops Research*, 101, 145-154.
- Tesfaye, K., Walker, S. and Tsubo, M. (Jul. 2006): Radiation interception and radiation use efficiency of three grain legumes under water deficit conditions in a semi-arid environment, *European Journal of Agronomy*, 25, 60-70.
- Tsubo, M., Basnayake, J., Fukai, S., Sihathep, V., Siyavong, P., Sipaseuth and Chanphengsay, M. (Jun. 2006): Toposequential effects on water balance and productivity in rainfed lowland rice ecosystem in Southern Laos, *Field Crops Research*, 97, 209-220.
- Zhang, B., Tsunekawa, A. and Tsubo, M. (Oct. 2006): Retrieval of optical depth of dust aerosol over land using two MODIS infrared bands, In *Proceedings of the International Society for Optical Engineering (SPIE) 2006* (p.732), Vol. 6419, 641927, *Geoinformatics 2006: Remotely Sensed Data and Information*, 28-29 October 2006, Wuhan, China; Liangpei Zhang, Xiaoling Chen; Eds. (ISBN: 0-8194-6528-3).

Subdivision of Revegetation and Grassland Development

- Ishii, Y., Sakamoto, K., Yamanaka, N., Wang, L. and Yoshikawa, K. (Nov. 2006): Light acclimation of needle pigment composition in *Sabina vulgaris* seedlings under nurse plant canopy, *J. Arid. Env.*, 67,403-415.
- Tateno, R., Tokuchi, N., Yamanaka, N., Du, S., Otsuki, K., Shimamura, T., Xue, Z., Wang, S. and Hou, Q. (Mar. 2007): Comparison of litterfall production and leaf litter decomposition between an exotic black locust plantation and an indigenous oak forest near Yan'an on the Loess Plateau, *China Forest Ecology and Management*, 241, 84-90.

Subdivision of Land Conservation

- Dehghanisani, H., Agassi, M., Anyoji, H., Yamamoto, T., Inoue, M. and Eneji, A.E. (Oct. 2006) : Improvement of saline water use under drip irrigation system , *Agricultural Water Management*, 85, 233-242.
- Fujimaki, H., Shimano, T., Inoue, M. and Nakane, K. (Nov. 2006) : Effect of a Salt Crust on Evaporation

from a Bare Saline Soil , Vadose Zone J. 5, 1246-1256.

Ould Ahmed, B.A, Yamamoto, T., Rasiah, V., Inoue, M. and Anyoji, H. (Feb. 2007) : The impact of saline water irrigation management options in a dune sand on available soil water and its salinity , *Agricultural Water Management*, 88, 63-72.

Ould Ahmed, B.A, Yamamoto, T. and Inoue, M. (Mar. 2007): Interaction of temperature and solar radiation effect sorghum growth under drip irrigation saline water, *Asian Journal of Plant Sciences*, 6(2), 359-363.

2) Japanese Journal / book

Subdivision of Natural Environment

Shinoda, M. and Morinaga, Y. (Mar. 2007): Climate variability and pastoralism in Mongolia, The special issue of global warming, *Kaiyo Monthly*, 46, 149-155. (in Japanese)

Morinaga, Y. and Shinoda, M. (Dec. 2006): Natural disasters in Mongolia: Monitoring system of drought and dzud of the Institute of Meteorology and Hydrology of Mongolia, *In Konagaya, Y. ed.: Handbook of Environmental Conservation*, Kenbun Sha, 97-113.

Shinoda, M. (Mar. 2007): Features of climate. *In Tsunekawa, A. ed.: Dryland Science in the 21st Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 6-9 (in Japanese). (ISBN978-4-7722-3105-3)

Shinoda, M. (Mar. 2007): Features of geomorphology, *In Tsunekawa, A. ed. Dryland Science in the 21st Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 9-11 (in Japanese). (ISBN978-4-7722-3105-3)

Shinoda, M. (Mar. 2007): Drought early warning system, *In Tsunekawa, A. ed. Dryland Science in the 21st Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 205-209 (in Japanese). (ISBN978-4-7722-3105-3)

Kimura, R. (Mar. 2007): Definition and distribution of dryland, *In Tsunekawa, A. ed. Dryland Science in the 21st Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 2-5 (in Japanese). (ISBN978-4-7722-3105-3)

Kimura, R. (Mar. 2007): Global environmental change over dryland. *In Tsunekawa, A. ed. Dryland Science in the 21st Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 39-40 (in Japanese). (ISBN978-4-7722-3105-3)

Yamada, Y., Kimura, R., Sugimura, F. and Kamichika, M. (Dec. 2006): Evaluation for Non-Dimensional evapotranspiration with radiometric surface temperature, *J. Agric. Meteorol*, 62(4), 133-137. (in Japanese with English abstract)

Subdivision of Water Resources

Wang, K., Yasuda, H., Anyoji, H., Mohamed Abd Elbasit M.A. (May 2006): Application of random cascade model to heterogeneous dye infiltration in dune sand, *Journal of Hydrology and Water Resources*, 19(2), 119-127. (in Japanese with English abstract)

Ould Ahmed, B. A, Yamamoto, T., Inoue, M. and Anyoji, H. (Aug. 2006): Drip Irrigation Schedules with Saline water for Sorgham under Greenhouse Condition, *Trans. JSIDRE*, 244, 133-141.

Ravolonantenaina A.H., Rakotondrainibe J.H., Yamamoto T., Eneji A.E. and Yasuda H. (Aug. 2006): Technical evaluation of the Borehole project in Mahajanga region of Madagascar and its effect on

- rural development, *Trans. of JSIDRE*, 244,215-225.
- Adel Zeggaf T., Anyoji, H. and Yasuda, H. (Nov. 2006): Effect of plant density on evapotranspiration estimation and crop coefficients of maize in greenhouse, *Sand Dune Research*, 53(2), 45-54.
- Anyoji, H. and Yasuda, H. (Jan. 2007): Design method of drip lateral line on non-uniform slopes, *Sand Dune Research*, 53(3), 107-116.
- Dehghanisanij H., Anyoji, H., Riyahi H. and Waleed, H.A.H. (Mar. 2007): Effect of emitter characteristics and irrigation schemes on emitter clogging under saline water use, *Journal of Arid Land Studies*, 16(4), 225-233.
- Anyoji, H. (Mar. 2007): Methods to increase water use efficiency in irrigation, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 209-215 (in Japanese). (ISBN978-4-7722-3105-3)

Subdivision of Plant Ecophysiology

- Tanaka, K., An, P. (Mar. 2007) Development of drought and salt resistant plants using molecular breeding technology, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 188-194 (in Japanese). (ISBN978-4-7722-3105-3)
- Tsunekawa, A. and Inanaga, S. (Mar. 2007): Framework of new dryland science, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 75-79 (in Japanese). (ISBN978-4-7722-3105-3)

Subdivision of Plant Production

- Takeuchi, K., Sato, Y., Suzuki, M., Tsunekawa, A., Tsurumi, T., Kubota, J., Fujitsuki, A., Ueharu, M., Omura, M., Yoshizawa, O. and Ishii, K. (eds.) (Jan. 2007): *Fundamentals of Environmental Science* (revised version). Jikyo Publisher, Tokyo. 271 p. (ISBN 978-4-407-20155-0)
- Tsunekawa, A. (Mar. 2007): *Dryland Science in the 21st Century, sustainability of nature and society*. Kokon Shoin, Tokyo. 246p. (in Japanese). (ISBN978-4-7722-3105-3)
- Tsunekawa, A. and Inanaga, S. (Mar. 2007): Framework of new dryland science, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 75-79 (in Japanese). (ISBN978-4-7722-3105-3)

Subdivision of Revegetation and Grassland Development

- Tamai, S. (Feb. 2006): Water retention materials for plants. 169-172. ed. Hori, T., Senisha, 440p. (in Japanese).
- Yamanaka, N. (Mar. 2007): Ecosystem characteristics, 11-18, degradation in vegetation, 33-35, Method of vegetation diagnosis, 98-106, Agriculture and revegetation technology, 148-157, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, pp.246. (in Japanese). (ISBN978-4-7722-3105-3)
- Yamamoto, A., Yamanaka, N., Kishimoto, T., Ricardo Jorge, D.G. and Tamai, S. (Aug. 2006): Light response curves of photosynthesis of important tree species in Caatinga Vegetation, North-East Brazil, *J. Jpn. Soc. Reveget. Tech.*, 32(1), 106-111. (in Japanese with English summary)
- Yamamoto, M., Tamai, S. and Yamanaka N. (Aug. 2006): Effect of drought stress on leaf water relations in *Salix psammophila* and *Salix matsudana*, *J. Jpn. Soc. Reveget. Tech.*, 32 (1), 131-136. (in Japanese with English summary)

- Yamanaka, N., Yamamoto, F., Du S., Otsuki, K., Xue Z., Han R.L., Liang Z. and Hou Q.C. (Aug. 2006): Leaf water potential of 14 woody species in the Loess Plateau near Yan'an, China, *J. Jpn. Soc. Reveget. Tech.*, 32(1), 143-148. (in Japanese with English summary)
- Yamamoto, M., Tamai, S. and Yamanaka, N. (Feb. 2007): Ecophysiological responses to drought stress in *Salix psammophila* C.Wang et Ch.Y. Yang and *Salix matsudana* Koidz, *J. Jpn. Soc. Reveget. Tech.*, 32(3), 425-431. (in Japanese with English summary)

Subdivision of Land Conservation

- Higashi, N., Mori, Y. and Inoue, M. (May 2006): Effective suction control for infiltration water sampling in unsaturated soils, *J. Japan Soc. Hydrol. & Water Resour.*, 19(3), 221-227. (in Japanese with English abstract)
- Moritani S., Yamamoto T., Hennintsoa A. Muraki H. (Jun. 2006): Monitoring of soil erosion using digital camera under simulated rainfall. *Trans. of JSIDRE*, 244, 143-149. (in Japanese with English abstract)
- Yamazaki, S., Inoue, M., Yamamoto, T. and Mori, Y. (Jun. 2006): Subsurface irrigation with saline water at two depths in a sandy soil, *Trans. of JSIDRE*, 243, 57-64. (in Japanese with English abstract)
- Kamiya, K., Bakrie, R. and Inoue, M. (Jul. 2006): Relationship between the air permeability coefficient and the degree of saturation of Tottori dune sand, *Sand Dune Research*, 53(1), 11-18. (in Japanese with English abstract)
- Ould Ahmed, B. A, Yamamoto, T., Inoue, M. and Anyoji, H. (Aug. 2006): Drip Irrigation Schedules with Saline water for Sorgham under Greenhouse Condition, *Trans. of JSIDRE*, 244, 133-141.
- Ravolonantenaina A.H., Rakotondrainibe J.H., Yamamoto, T., Eneji, E.A. and Yasuda, H. (Aug. 2006): Technical evaluation of the Borehole project in Mahajanga region of Madagascar and its effect on rural development. *Trans. of JSIDRE*, 244, 215-225.
- Al-Busaidi, A., Yamamoto, T., Bakheit, S. C. and Cookson, P. (Nov. 2006): Soil salinity assessment by some destructive and non destructive methods in calcareous soils, *Journal of the Japanese Society of Soil Physics*, 104, 27-40.
- Kamiya, K. and Inoue, M. (Nov. 2006): Functional relationship between air permeability coefficient and degree of saturation of unsaturated soils, *Proceedings of symposium on monitoring techniques and prediction of real time failure in a slope during rainfall*, 87-94 (in Japanese with English abstract)
- Ravolonantenaina A.H., Yamamoto, T, Rasiah, V, and Fukada, M. (Feb. 2007): Improving the resistance of an acid soil to water erosion using artificial zeolite and hydrated lime amendments, *Trans. of JSIDRE*, 247, 53-64.
- Saito, S. and Inoue, M. (Mar. 2007): Water erosion and countermeasures in the Loess Plateau, China in arid and semi-arid lands, *Journal of Arid Land Studies*, 16(4), 177-187. (in Japanese with English abstract)
- Yamamoto, T. (Mar. 2007): Soil degradation, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 36-38. (in Japanese). (ISBN978-4-7722-3105-3)
- Yamamoto, T. (Mar. 2007): Land reclamation and revegetation technology, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 200-201. (in Japanese). (ISBN978-4-7722-3105-3)
- Inoue, M. and Mochizuki, H. (Mar. 2007) : Diagnostic Methods of Soil, *In Tsunekawa, A. ed. Dryland Science in the 21Century, Sustainability of Nature and Society*, Kokon Shoin, Tokyo, 84-91 (in

Japanese). (ISBN978-4-7722-3105-3)

Division of Comprehensive Measures to Combat Desertification

Nawata, H. (Jun. 2006): Food Habit in the Coastal Zones of the Arid Tropics, A Case of the Beja in Eastern Sudan, *Journal of Arid Land Studies*, 16(1), 1-18.

(2) Presentations

Subdivision of Natural Environment

- Shinoda, M. (Apr. 2006): Atmosphere-land interaction over world arid regions based on ground observations, Specific Seminar of the Pukyong National University, Pukyong, Korea.
- Shinoda, M. (Apr. 2006): Drought memory maintained in the grassland ecosystem. Spring Meeting of Korean Meteorological Society, Kwong-ju, Korea, 412-413
- Shinoda, M., Tachiiri, K., Morinaga, Y., Ganbaatar, T., Erdenetuya, M., Bayasgalan, M. and Erdenetsetseg, B. (Jul. 2006): Developing a drought and dzud early warning system for the Mongolian pastoralism, International Geographical Union, 2006 Brisbane Conference, Brisbane, Australia, 53.
- Kobashi, A., Takayama, N., Shinoda, M. and Kimura, R. (Sep. 2006): Relationship between the climatic feature and spatial distribution of vegetation in the Loess Plateau, Joint Conference on Environmental Engineering in Agriculture 2006, CDROM. (in Japanese)
- Nureki, K., Shinoda, M. and Kimura, R. (Sep. 2006): Environmental variation in the earth-air heat exchange house. Joint Conference on Environmental Engineering in Agriculture 2006, CDROM. (in Japanese)
- Munkhtsetseg, E., Kimura, R. and Shinoda, M. (Sep. 2006): Pasture yield response to precipitation and high temperature in Mongolia, Joint Conference on Environmental Engineering in Agriculture 2006, CDROM.
- Shinoda, M., Ito, S., Nachinshonhor, G.U. and Erdenetsetseg, D. (Oct. 2006): Phenology of Mongolian perennial grasses and meteorological conditions, 2006 Fall Meeting of Meteorological Society of Japan, Nagoya, 244.
- Tian, S., Morita, Y. and Shinoda, M. (Oct. 2006): Effect of meteorological conditions on vegetation activity in Mongolia, 2006 Fall Meeting of Meteorological Society of Japan, Nagoya, 420.
- Nakano, T., Nemoto, M. and Shinoda, M. (Oct. 2006): Night-time moisture flux in a semi-arid grassland of Mongolia, 2006 Fall Meeting of Meteorological Society of Japan, Nagoya, 331.
- Shinoda, M., Tsunekawa, A., Nemoto, M., Nachinshonhor, G.U., Nakano, T., Tamura, K., Asano, M. and Erdenetsetseg, D. (Dec. 2006): Drought experiment of a Mongolian grassland ecosystem, 2006 American Geophysical Union Fall Meeting, San Francisco, USA, B51A-0296.
- Nakano, T., Shinoda, M. and Nemoto, M. (Dec. 2006): Environmental controls on carbon dioxide flux in a semi-arid grassland of Mongolia, 2006 American Geophysical Union Fall Meeting, San Francisco, USA, B41B-0191
- Nemoto, M., Shinoda, M. and Nakano, T. (Dec. 2006): Impact of snow and vegetation activity on surface energy balance in a Mongolian grassland, 2006 American Geophysical Union Fall Meeting, San Francisco, USA, A41B-0028.
- Kawai, D., Kimura, R. and Shinoda, M. (Dec. 2006): Relationship between the sap flow and meteorological condition over the pine forest, *Agricultural Meteorology of Chugoku and Shikoku 2006*,

- 74-75. (in Japanese)
- Kawai, T., Tada, Y. and Shinoda, M. (Dec. 2006): Underground water measurement by a sound method. *Agricultural Meteorology of Chugoku and Shikoku 2006, ??-??*. (in Japanese)
- Matsuoka, M., Takayama, N., Kimura, R. and Shinoda, M. (Dec. 2006): Observation of seasonal change of sand surface in Tottori sand dune, *Proc. of Agricultural Meteorology of Chugoku and Shikoku 2006, 52-53*. (in Japanese), Yamaguchi, 14-15.
- Takayama, N., Kimura, R. and Shinoda, M. (Dec. 2006): Verification of accuracy for the interpolation method for monthly precipitation, *Proc. of Agricultural Meteorology of Chugoku and Shikoku 2006, 78-79*. (in Japanese)
- Shinoda, M. (Dec. 2006): Atmosphere-biosphere interaction, Drought memory of ecosystem and its feedback to atmosphere, and Application of drought memory concept to early warning system. Desert Research Institute, Reno, USA, 19.
- Shinoda, M. (Dec. 2006): Atmosphere-biosphere interaction, Drought memory of ecosystem and its feedback to atmosphere, and Application of drought memory concept to early warning system. Office of Arid Lands Studies, Tucson, USA, 21.
- Shinoda, M. (Jan. 2007): Eco-climatological system of Mongolia in view of world drylands: Trend and prospect of research, *Workshop of Transitional Zone of Vegetation in Mongolia, Tsukuba, 25-26*.
- Nakano, T., Nemoto, M. and Shinoda, M. (Jan. 2007): Carbon dioxide flux between grasses and atmosphere in a semi-arid grassland of Mongolia, *Workshop of Transitional Zone of Vegetation in Mongolia, Tsukuba, 25-26*.
- Kinugasa, T., Shinoda, M. and Tsunekawa, A. (Mar. 2007): How does increased nitrogen deposition influence vegetation and pastoralism in Mongolia. 54th Meeting of Ecological Society of Japan, Matsuyama, 277.
- Moriyama, M., Nakayama, Y. and Kimura, R. (May 2006): Studies on the correction method for day-night temperature difference. The Remote Sensing Society of Japan.
- Kimura, R., Zhang, X. and Li, S. (Aug. 2006): Estimation of moisture availability over a Liudaogou river basin using indices with surface temperature, Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 19.
- Takayama, N., Kimura, R., Kobashi, A. and Zhang, X. (Aug. 2006): Geographic classification and monitoring of Loess Plateau by natural environment factors; Climate, erosion and vegetation. Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 8.
- Wang, J., Guo, N. and Kimura, R. (Aug. 2006): A study on vegetation cover dynamics on Loess Plateau by using GIMMS NDVI data. Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 20.
- Wang, Q.J., Kimura, R., Zhang, X.C., Matsuoka, N., Yasuda, H. and Li, S.Q. (Aug. 2006): Horizontal infiltration method for determining Brooks-Corey model parameters, Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 7.
- Zhang, X.C., Kimura, R., Matsuoka, N., Yasuda, H., Li, S.Q. and Wang, Q.J. (Aug. 2006): Distribution of nutrients and enzymes in Loess Plateau soil aggregates after long-term fertilization, Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 17.
- Li, S.Q., Kimura, R., Matsuoka, N., Yasuda, H., Wang, Q.J. and Zhang, X.C. (Aug. 2006): Compare research on simulative model of spring maize leaf area and biomass of film mulching in semiarid field

- ecosystem, Japan-China joint open seminar on combating desertification and development in inland China of year 2006, 18.
- Kimura, R. (Aug. 2006): Environmental research group; Research introduction. International conference on dryland studies and combating desertification in Tottori.
- Kimura, R. and Moriyama, M. (Sep. 2006): Estimation of surface moisture condition: Its application to semi-arid regions, Proc. of Joint Conference on Environmental Engineering in agriculture (CDROM).
- Ishikawa, D., Sekioka, S., Ishiguro, E., Okamoto, T., Nekado, A. and Kimura, R. (Sep. 2006): Studies on the growth investigation method of tea using the spectral reflectance properties and leaf temperature, Proc. of Joint Conference on Environmental Engineering in agriculture (CDROM).
- Matsuoka, N., Maeda, Y., Kimura, R., Kamichika, M., Zheng, J., Zhang, X., Wen, B., Kon, H. and Nakano, S. (Sep. 2006): Relationship between soil moisture content and evaporation in the Loess Plateau. Proc. of Joint Conference on Environmental Engineering in agriculture (CDROM)
- Munkhtsetseg, E., Kimura, R. and Shinoda, M. (Sep. 2006): Pasture yield response to precipitation and high temperature in Mongolia. Proc. of Joint Conference on Environmental Engineering in agriculture (CDROM).
- Matsuoka, M., Takayama, N., Kimura, R. and Shinoda, M. (Sep. 2006): Observation of seasonal change of sand surface in Tottori sand dune. Proc. of Agricultural Meteorology of Chugoku and Shikoku 2006, 52-53.
- Kawai, D., Kimura, R. and Shinoda, M. (Sep. 2006): Relationship between the sap flow and meteorological condition over the pine forest. Proc. of Agricultural Meteorology of Chugoku and Shikoku 2006, 74-75.
- Takayama, N., Kimura, R. and Shinoda, M. (Sep. 2006): Verification of accuracy for the interpolation method for monthly precipitation. Proc. of Agricultural Meteorology of Chugoku and Shikoku 2006, 78-81.

Subdivision of Water Resources

- Dhavu, K., Anyoji, H., Yasuda, H. and Dehhanisanij, H. (Oct. 2006): The effect of drip irrigation on crop coefficient. Proceedings of JSIDRE Chugoku-Shikoku Branch Annual Conference, 61, 55-57.
- Anyoji, H. (Oct. 2006): Irrigation for non-paddy fields (special speech), Proceedings of JSIDRE Chugoku-Shikoku Branch Annual Conference, 61, 1-5. (in Japanese)

Subdivision of Plant Ecophysiology

- Hattori, T., Inanaga, S., An, P. (May 2006): Improvement of drought tolerance in sorghum by silicon-induced enhancement of water uptake, International Symposium of the Institute Network. Kyoto, 53.
- Hattori, T., Sonobe, K., Inanaga, S., An, P. (May 2006): Effects of silicon application on water relation of sorghum under osmotic stress, Workshop on silicon in plants, Kurashiki, 20-23.
- Hattori, T., Inanaga, S., An, P. (Aug. 2006): Comparison of effects of silicon application between sorghum and cucumber from aspects of photosynthesis and stomatal behavior under water stress. IYDD Event, Tottori,
- Hattori, T., Inanaga, S., Sonobe, K., An, P. (Aug. 2006): Silicon application enhanced drought tolerance in *Sorghum bicolor* (L.) Moench, IYDD Event, Tottori
- Inoue, T., Inagaki, M., Nachit, M. M., Valkoun, J., Inanaga, S., An, P. (Aug. 2006): Contribution of

post-anthesis assimilates to grain yield of drought resistant synthetic hexaploid wheat derivatives, IYDD Event, Tottori.

Inoue, T., Inanaga, S., Sugimoto, Y. and An, P. (Aug. 2006): Physiological characteristics related to drought resistance in Chinese local wheat cultivar Hongmangmai, IYDD Event, Tottori.

Tsuji, W., Inanaga, S., An, P. (Aug. 2006): Is water uptake efficiency of deep roots of two sorghum cultivars differing in drought tolerance different under topsoil drying? IYDD Event, Tottori.

Tsuji, W., An, P. (Dec. 2006): The mechanism of drought resistance in sorghum and the development of water-saving cultivation technology in dry areas, ICARDA In-house seminar, ICARDA, Aleppo, Syria.

Subdivision of Plant Production

Tsunekawa A. (Feb. 2007): A success story from rural villages in Shaanxi. 2007 AAAS (American Association for the Advancement of Science) Annual Meeting. San Francisco, USA.

Kinugasa, T., Shinoda M. and Tsunekawa A. (Mar. 2007): How does increased nitrogen deposition affect vegetation and grazing potential of Mongolian grassland? The 54th Annual Meeting of the Ecological Society of Japan

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