

2.4 List of Publications, Presentations and Reports

(1) Publications (Apr.2004 - Mar.2005)

1) International Journals / book

Subdivision of Natural Environment

Kimura, R., Okada, S., Miura, H. and Kamichika, M. (Sep. 2004): Relationships among the leaf area index, moisture availability, and spectral reflectance in an upland rice field. *Agric. Water. Management*, 69, pp. 83-100

Subdivision of Plant Ecophysiology

An, P., Inanaga, S., Shimizu, H., El-Siddig, K., Li, X.J., Zheng, Y.R., Hibino, T., Morita, S., and Sugimoto, Y. (2004) Ameliorating effect of calcium on radicle elongation of soybean under sodium stress. *Biologia* 59 (13) : 129-135 .

An, P., Inanaga, S., Li, X.J., Eneji, A.E., Shimizu, H. and Zhu, N.W. (2005) Interactive effects of salinity and air humidity on two tomato cultivars differing in salt tolerance. *Journal of Plant Nutrition* 28: 459-473

El-Siddig, K., Ali, A.M., An, P., and Inanaga, S. (2004) Response of *Tamarindus indica* L . to iso-osmotic solutions of NaCl and PEG during germination . *Journal of Applied Botany* 2004 . 78 : 1 - 4 .

El-Siddig, K., Gebauer, J., Ebert, G., Ali, A.M., and Inanaga S. (2004) Influence of salinity on emergence and early seedling growth of *Tamarindus indica* L. *Europ. J. Hort. Sci.*, 69: 79-81.

Hattori, T., Inanaga, S., Araki, H., An, P., Morita, S., Luxová, M. and Lux, A. (2005) Application of silicon enhanced drought tolerance in *Sorghum bicolor* (L.) Moench. *Physiologia Plantarum*. 123: 459-466

Inoue, T., Inanaga, S., Sugimoto, Y. An, P. and Eneji, A.E. Effect of drought on ear and flag leaf photosynthesis of two wheat cultivars differing in drought resistance. *Photosynthetica* 42: 559-565

Inoue, T., Inanaga, S., Sugimoto, Y. El Siddig, K. Contribution of pre-anthesis assimilates and current photosynthesis to grain yield, and their relationships to drought resistance in wheat cultivars grown under different soil moisture. *Photosynthetica* 42: 99-104.

Ito, K., Morita, S., Abe, J. and Inanaga, S. (2004) Growth direction of nodal roots with reference to root cap development in field-grown maize (*Zea mays* L.) *Biologia* 13: 1-7.

Zhu, N.W. An, P. and Wang, X.Z. (2004) Crystal structure of bis[(μ -4-nitrophenolato (nitrato) (1,10-phenanthroline)-lead(II)), [Pb(OC₆H₄NO₂)(C₁₂H₈N₂)(NO₃)₂]. *Zeitschrift Fur Kristallographie-New Crystal Structures* 219 : 1 - 2 .

Zheng, Y., Gao, Y., An, P., Shimizu, H., and Rimmington, G.M. (2004) Germination characteristics of *Agriophyllum squarrosum*. *Canadian Journal of Botany*, 82: 1662-1670

Li, X., An, P., Eneji, A.E., Hamamura K., Lux, A., Inanaga, S. Growth and yield responses of two soybean cultivars to defoliation and water stress. *Biologia* (in press)

Li, X., An, P., Inanaga, S., Eneji, A.E., Abdelbagi, M. A. Mechanisms promoting recovery from defoliation in determinate and indeterminate soybean cultivars. *Journal of Food, Agriculture and Environment* (in press)

An, P., Inanaga, S., Shimizu, H., Li, .J., El-Siddig, K., Inoue, T. and Mars, M. Identification of plant species as indicators of desertification degree . *African Journal of Ecology* (in press)

Subdivision of Plant Production

Xu, ZM, Hamamura, K. et al. (July,2004): Applying information entropy to decide sample amount and content in contingent valuation survey, *Pakistan Journal of Social Sciences* 2(3):171-175

Subdivision of Land Conservation

Dehghanisanij H., Yamamoto T., Rasiah V., Utsunomiya J. and Inoue M. (May 2004): Impact of biological clogging agents on filter and emitter discharge characteristics of microirrigation systems, *Irrigation and Drainage*, 53(4), pp.363-373

Yamamoto T., Dehghanisanij H., and Agassi M. (June 2004): Soil degradation and rehabilitation for irrigated agricultural in arid lands. *The International Society for Southeast Asian Agricultural Sciences Journal*, 10,41-50.

Fujimaki H., Inoue M. and Konishi K. (June 2004): A Multi-step Inflow Method for Estimating Hydraulic Conductivity at Low Pressure under Wetting Process, *Geoderma*, 120, pp.177-185

Yamanaka, T., Inoue M. and Kaihotsu I. (June 2004): Effects of gravel mulch on water vapor transfer above and below the soil surface, *Agricultural Water Management* 67, pp.145-15

2) Japanese Journal / book

Subdivision of Natural Environment

Kimura, R., Kamichika, M., Takayama, N., Matsuoka, N. and Zhang, X. (Jun. 2004): Heat balance and soil moisture in the Loess Plateau, China. *J. Agric. Meteorol*, 60(2), pp. 103-113

Takayama, N., Kimura, R., Kamichika, M., Matsuoka, N. and Zhang, X. (Sep. 2004): Climatic features of rainfall in the Loess Plateau, China. *J. Agric. Meteorol*, 60(3), pp. 173-189

Kimura, R., Liu, Y., Takayama, N., Kamichika, M., Matsuoka, N. and Zhang, X. (Mar. 2005): Heat balance and soil water content for bare soil surfaces in the Loess Plateau, China. *J. Agric. Meteorol*, 60(5), pp. 1013-1016

Okatsu, K., Kimura, R. and Kamichika, M. (Mar. 2005): Study on the evapotranspiration from the bare soil surface using a zero-flux plane. *J. Agric. Meteorol*, 60(5), pp. 1089-1092

Kimura, R. (Nov. 2004): Local meteorology (Section 2.5.2), Morikita, Tokyo, 244pp.

Subdivision of Water Resources

Miyamoto, K., Yamamoto, T. and Anyoji, H.(June 2004): Crisis management of water shortage in an irrigation area with a pipeline network system, *Paddy and Water Environment*. ; (2004)2: 59-65

Anyoji, H. and Yasuda, H.(Feb. 2005): Procedure for determining the parameters in linear and non-linear infiltration equations, *Sand Dune Research*. ; 51(3): 131-144

Anyoji, H.(April 2004): Activity of environment protect in Romania (No. 2), *Journal of Upland Agriculture*.; 545: 11-30 (in Japanese)

Anyoji, H.(May 2004): Development of research on irrigation in Japan, *Journal of Upland Agriculture*.; 546: 11-24 (in Japanese)

Anyoji, H.(Nov. 2004): Present issues of irrigation systems in Romania, *Research Journal of Food and Agriculture*; 27(11): 49-52 (in Japanese)

Kinoshita, G., Yasuda, H. and Abe, Y. (March 2004): Time series analyses of rainfall in Sahel

- (1)-Relationship of rainfall time series with sea surface temperature and sunspot number cycle-, Journal of Arid Land Research,; 13(4): 235-241(in Japanese)
- Kinoshita, G., Yasuda, H. and Abe, Y. (March 2004): Time series analyses of rainfall in Sahel (2)-Optimization of Fourier fitting to rainfall time series using Akaike information criterion-, Journal of Arid Land Research,; 13(4): 243-248 (in Japanese)
- Suzyka, J., Yasuda, H., Inosako, K., Takuma, H. and Ono, K. (June 2004): Digital analyses of salt crust caused by salt accumulation, Sand Dune Research,; 51(1): 27-32 (in Japanese)

Subdivision of Plant Ecophysiology

- Abe J., Lux A., Hattori T., Morita S., Tanimoto E., Inanaga S. and An P. 2005. Detecting specific distribution of silicon in leaf and root using X-ray microanalysis. Agriculture and Horticulture 80(3):181-186.
- Shinobu Inanaga, Ryoji Nakazawa, Hisashi Tomemori, Atsuko Hirano, Mayumi Murakami, Hidetoshi Mochizuki, Mechanism of phosphate-adsorption onto porous glass materials. Man & Environment 31(1), 11-16
- Ito K., Morita S., Abe J. and Inanaga S. 2004. Change in growth direction of nodal roots in relation to root cap morphology in field-grown maize and sorghum. Root Research 13(1): 9-13.
- Iwao Sakaguchi, Hidetoshi Mochizuki, Mitsuhiro Inoue, Shinobu Inanaga (2004) Latent Heat Transfer in a Salt-affected Nonswelling Clay, J. Jpn. Soc. Soil Phys., 98:3-10

Subdivision of Plant Production

- Kondo, K, Hamamura, K. et al. (Sept.,2004): Effects of red non-sulfur bacteria (*Rhodobacter sphaeroides*) treated waste liquid from sugar production on spinach growth and quality, Journal of Agricultural Production Technology and Management 11(2):49-54
- Han, WJ. and Hamamura. K. (Dec.,2004): Effects of salt treatment on growth and nutrient absorption of *Salicornia* plant (*Salicornia bigelovii* Torr.), Arid Land Study 14(2):75-80

Subdivision of Revegetation and Grassland Development

- Yoshikawa,K., Yamanaka, N. and Ote, N. eds. (2004.5) Nature and revegetation in arid land - In the cause of ecosystem restoration in degraded arid areas - , Kyoritsu Pub. pp.233 ISBN4-320-05609-4 (in Japanese)
- Satoshi Yamada, Yoko Kawai, Masuo Yamanouchi, Norikazu Yamanaka, Tsuneyoshi Endo, Hisashi Manabe (2004.10) Comparison of the Mineral distribution characteristics of seven species of plants growing on tottori coastal sand dune during summer and early autumn, Sand dune research 51:75-81
- Otsuki, K., Yamanaka, N., Du, S., Yamamoto, F., Xue, Z., Wang, S. and Hou, Q. (2005 . 2) : Seasonal Changes of Forest Ecosystems in an Artificial Forest of *Robinia pseudoacacia* in the Loess Plateau in China, Journal of Agricultural Meteorology, 60(5), 613-616

Subdivision of Land Conservation

- Inoue M., Morii T., Nishimura T. and Fujimaki H.(June 2004): In-situ determination of unsaturated hydraulic conductivity using profile probe, Trans, JSIDRE, 231, pp.39-45 (in Japanese with English abstract)

- Sakaguchi Y., Yamamoto T. and Inoue M. (Aug. 2004): Measurement of moisture and salinity of dune sand soil under irrigation with water of high NaCl concentration, *Trans, JSIDRE*, 232, pp.35-41 (in Japanese with English abstract)
- Sakaguchi I., Mochizuki H., Inoue M. and Inanaga S. (Nov. 2004): Latent heat transfer in a salt-affected nonswelling clay, *J. Jpn. Soc. Soil Phys.* 98, pp.3-10 (in Japanese with English abstract)
- Dehghanisani H., Yamamoto T. and Inoue M. (Nov. 2004): Practical aspects of TDR for simultaneous measurements of water and solute in a dune sand field, *J. Jpn. Soc. Soil Phys.* 98, pp.21-30
- Ould Ahmed B.A., Yamamoto T., Dehghanisani H., and Eneji A.E. (Dec.2004):
Characteristics of meteorological factors in semi-arid lands: The case of Mauritania, *Journal of Arid Land Studies*, Vol. 14(3), 123-132.
- Inoue, M. (March. 2005): Development and invention of measuring techniques, *Jour. JSIDRE*, 73(3), pp.55-56 (in Japanese)

(2) Presentations

Subdivision of Natural Environment

- Kimura, R., Liu, Y., Takayama, N., Kamichika, M., Matsuoka, N. and Zhang, X. (Sep. 2004): Heat balance and soil water content for bare soil surfaces in the Loess Plateau, China. *International Symposium on FPEC*, pp.156
- Okatsu, K., Kimura, R. and Kamichika, M. (Sep. 2004): Study on the evaporation from the bare soil surface using a zero flux plane. *International Symposium on FPEC*, pp.178
- Li, J., Shao, M.A., Zhang, X.C., Fan, J., Kamichika, M., Kimura, R., Matsuoka, N. and Yasuda, H. (Nov. 2004): Soil desiccation and soil water carrying capacity on dryland of the Loess Plateau, China. *Japan-China joint open seminar on combating desertification and development in inland China of year 2004*, pp.9-10
- Shao, M.A., Zheng, J.Y., Zhang, X.C., Kamichika, M., Yasuda, H., Kimura, R. and Matsuoka, N. (Nov. 2004): Spatial variability of solute transport parameters in soil on slope land. *Japan-China joint open seminar on combating desertification and development in inland China of year 2004*, pp.25
- Zhang, X.C., Shao, M.A., Kamichika, M., Kimura, R., Yasuda, H. and Matsuoka, N. (Nov. 2004): A review of soil and water conservation in China. *Japan-China joint open seminar on combating desertification and development in inland China of year 2004*, pp.26
- Kimura, R., Takayama, N., Kamichika, M., Matsuoka, N., Zhang, X.C. and Shao, M.A. (Nov. 2004): Heat balance and soil water content for bare soil surfaces in the Loess Plateau, China. *Japan-China joint open seminar on combating desertification and development in inland China of year 2004*, pp.27
- Matsuoka, N., Nakano, S., Zhang, X.C., Kamichika, M., Kimura, R. and Kon, H. (Nov. 2004): Change of precipitation distribution around Loess Plateau for recent 40 years. *Japan-China joint open seminar on combating desertification and development in inland China of year 2004*, pp.28-29
- Takayama, N., Kimura, R. and Kamichika, M. (Nov. 2004): Estimation of monthly precipitation normals, *Proc. of Agricultural Meteorology of Chugoku and Shikoku 2004*, pp. 34-37 (in Japanese)
- Takagi, K., Kimura, R. and Kamichika, M. (Nov. 2004): Effect of the meteorological condition on the ratio of actual evapotranspiration to the potential evaporation, *Proc. of Agricultural Meteorology of Chugoku and Shikoku 2004*, pp. 40-43 (in Japanese)
- Okatsu, K., Kimura, R. and Kamichika, M. (Nov. 2004): Observation method for the evaporation using the

soil moisture sensor, Proc. of Agricultural Meteorology of Chugoku and Shikoku 2004, pp. 48-51(in Japanese)

Subdivision of Water Resources

Zeggaf, A. T., Anyoji, H. and Yasuda, H.(Oct. 2004): Partitioning of soil evaporation and plant transpiration during maize crop growth, Proc. of JSIDRE, Branch of Chugoku-Shikoku,; 59: 51-52

Dehghanisani, H., Yamamoto, T., Agassi, M., Inoue, M. and Anyoji, H.(August 2004): Interaction of soil water content and soil solute salinity under drip irrigation in dune field, ASAE/CSAE Annual International Meeting

Yasuda, H., Wang, K., Mohamed Abd Elbasit Mohamed Ahmed, Anyoji, H. and Zhang X. (Sep. 2004): Analyses of rainfall time series in the loess plateau in China, International Symposium on Food Production and Environmental Conservation in the Face of Global Environmental Deterioration

Subdivision of Plant Ecophysiology

Araki, H., Tuji, W., Inanaga, S. (2004) Water conductance in the root of cowpea in response to water consumption in the shoot. Root Research. 13, 168. .

Hattori, T., Inanaga, S., Araki, H., An, P. (2004) Effects of Silicon application on transpiration and water absorption rates in sorghum under osmotic stress. Root Research. 13, 178 .

Homma T., E. Tanimoto, Lux A., Luxova M., Hoshino T., Matsuo K., Abe J., Morita S., Inanaga S., Ma JF. Characterization of hydroponics-grown white roots of tea plants, with special reference to acid and aluminum tolerance. 2004 International Conference on O-Cha(tea) Culture and Science, Shizuoka, Japan, November 4-6, 2004.

Ito, K., Lux, A., Morita, S., Abe, J. and Inanaga, S. (2004) Establishment of a rapid method to analyze cell elongation in different tissues along root axis in maize. Root Research 13(2):82.

Lux, A., Ito, K., Morita, S., Abe, J., Luxova, M. and Inanaga, S. (2004) Relationship between cell length and root elongation of maize seedlings grown under water stress conditions.

Tanakamaru, K., Morita, S., Abe, J., Inanaga, S. (2004) Effects of drought on lateral root emergence in primary root of wheat. Japanese Journal of Crop Science 73 (suppl. 1):282-283.

Tanimoto E., Homma T., Lux A., Luxova M., Matsuo K., Abe J., Morita S., Inanaga S. Phytohormone gibberellin regulates vegetative growth and flowering of hydroponics-grown tea trees. 2004 International Conference on O-Cha (tea) Culture and Science, Shizuoka, Japan, November 4-6, 2004.

Tsuji, W., Inanaga, S., Araki, H., An, P., Watanabe, M. (2004) Water absorption ability of roots in the lower layer of two sorghum cultivars differing in drought tolerance. Root Research 13,180 .

Subdivision of Revegetation and Grassland Development

Yamanaka, N., Du,S., Yamamoto, F., Otsuki,K., Xue, Z., Wang, S. and Hou, Q. (2004.4) Studies on the ecosystem restoration in the Loess Plateau, China(1)-Stand structure of *Quercus liaotungensis* near Yanan area. Proc. of the 115th Annual meeting of The Jap.For.Soc., p.688 (in Japanese)

Yamamoto, F.,Yamanaka, N., Du,S., Otsuki,K., Han,R., Liang S.and Hou, Q. (2004.4) Studies on the ecosystem restoration in the Loess Plateau, China(2)-Drought tolerance of woody plants growing near Yanan area. Proc. of the 115th Annual meeting of The Jap.For.Soc., p.689 (in Japanese)

Ando,M., Kaneko, T., Yamazaki, M., Yamanaka, N., Hasegawa, N., Sakai, T., Kaneko, Y., Oohata, S. and

- Takeuchi, N.(2004.4) 10 years dynamics of a natural forest of Mondoridani Watershed in Asiu. Proc. of the 115th Annual meeting of The Jap.For.Soc., p.446 (in Japanese)
- Taniguchi, T., Tamai, S., Yamanaka, N. and Hutai, I.(2004.4) Natural regeneration of black pine seedlings in a *Robinia pseudo-acacia* forest. Proc. of the 115th Annual meeting of The Jap.For.Soc., p.30 (in Japanese)
- Tamai,S., Ando, M., Sano, J. and K.Tuluhan Yilmaz (2004.8) Vegetation and stand structure in Cukuroba plane, Southern Turkey. Proc. of the 51st Annual meeting of The Ecological Soc. of Japan, p.268 (in Japanese)
- Koyama, R., Yamanaka, N. and Tokuchi,N. (2005.3) Nitrogen transformation and plant N use in Tottori Sand Dune. Proc. of the 52nd Annual meeting of The Ecological Soc. of Japan, p.178 (in Japanese)
- Tokuchi, N., Tateno, R., Yamanaka, N., Du,S., Otsuki, K., Wang, S., Xue, Z., and Hou, Q.(2005.3) Nutrient dynamics of *Robinia* plantation and *Quercus* forest in the Loess Plateau, China. Proc. of the 52nd Annual meeting of The Ecological Soc. of Japan, p.181 (in Japanese)
- Sakamoto, K., Yamanaka,N., Zhang,G, Ishii, Y., Miki, N., Ninomiya,I., Wang, L. and Yoshikawa, K. (2005.3) Stand structure and Inter species relations of *Sabina vulgaris* community in Mu-U's sandy land of Inner Mongolia, China. Proc. of the 116th Annual meeting of The Jap.For.Soc., CD-ROM (in Japanese)
- Taniguchi, T., Kanzaki, N., Tamai, S., Yamanaka, N., Yamamoto, F. and Futai, I. (2005.3) Mycorrhizal symbiosys of black pine seedlings in a *Robinia pseudo-acacia* forest. Proc. of the 116th Annual meeting of The Jap.For.Soc., CD-ROM (in Japanese)

Subdivision of Land Conservation

- Dehghanisanij H., Yamamoto T., Agassi M., Inoue M. and Anyoji H. (April 2004): Interaction of soil water content and soil solute salinity under drip irrigation in dune field, 2004 ASAE/CSAE Annual International Meeting, PN 042036-11
- Yamamoto T., Satoh A., Shimura Y., Rasiyah V. and Martin L. (May 2004): Characteristics of acid soil and its improvement in arid land of Australia, Proceedings of the 2004 meeting, Japanese Association for Arid Land Studies, pp.21-22 (in Japanese)
- Inoue M.(July 2004): Soil moisture measurement of dune sand with high salt concentration using ADR moisture sensor, Proceedings of Japanese Society of Sand Dune Research, 51, pp.18-19 (in Japanese)
- Morii T., Inoue M. and Takeshita Y. (July 2004): In-situ determination of unsaturated hydraulic conductivity of soil based on internal drainage method, Proceeding of the thirty-ninth Japan National Conference on Geotechnical Engineering, pp.1227-1228 (in Japanese)
- YamamotoT.,Aritune Y., Satoh A., Takahasi H., Sumikoshi M., Dehghanisanij H., and Agassi M. (Aug.2004): Application of artificial zeolite to combat soil erosion. ASAE Annual meeting, Ottawa, Canada, pp.1-4.
- Inoue M. (Sep. 2004): Inverse estimation of soil hydraulic properties with HYDRUS-2D, Proceedings of 2004 Annual meeting of JSIDRE, pp.92-93 (in Japanese)
- Tokumoto I., Toride N. and Inoue M. (Sep. 2004): Hydrodynamic dispersion for undisturbed Andisols, Proceedings of 2004 Annual meeting of JSIDRE, pp.284-285 (in Japanese)
- Kihara Y, Mori Y. and Inoue M. (Sep. 2004): Non-uniform distribution of water and solute concentration caused by evaporation, Proceedings of 2004 Annual meeting of JSIDRE, pp.358-359 (in Japanese)
- Asai M., Fujimaki H., Inoue M. and Abe Y. (Sep. 2004): Parameter estimation of root water uptake

- models: 1.Under water stress, Proceedings of 2004 Annual meeting of JSIDRE, pp.368-369 (in Japanese)
Fujimaki H., Ando Y., Cui Y., Inoue M. and Abe Y. (Sep. 2004): Parameter estimation of root water uptake models: 2.Under salinity stress, Proceedings of 2004 Annual meeting of JSIDRE, pp.370-371 (in Japanese)
- Higashi N., Mori Y. Inosako K. and Inoue M. (Sep. 2004): Application of an automated infiltration soil water sampler in unsaturated sandy soil, Proceedings of 2004 Annual meeting of JSIDRE, pp.376-377
- Ould Ahmed B.A, Yamamoto T., Dehghanisanij H., Inoue M. and Sakaguchi Y. (Sept. 2004): Effects of Drip Irrigated Saline Water on the Growth of Sorghum in a Dune Sand Field, Proceedings of 2004 Annual meeting of JSIDRE, pp.474-475
- Ravolonantenaina H.A., Moritani S., and Yamamoto T. (Sep. 2004): The Effect of Sedum Plant as Vegetative Cover on Loamy and Clay Soil Erosions under simulated rainfall. Annual meeting of the Japanese Society of Irrigation, Drainage and Reclamation Engineering, Proceedings of 2004 Annual meeting of JSIDRE , pp.546-547
- Bai Y., Inosako K., Yamada S., Takuma K., Inoue M. Liang Y. and Deng X (Oct. 2004): Multiple Regression Analysis of a Micro-meteorological Environment in a Chinese Style Greenhouse, Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59, pp.45-47
- Al-Busaidi B.A., Yamamoto T., and Peter Cookson (Oct.2004) : leaching potential of sea water, Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59 , pp.48-50
- Inoue M. (Oct. 2004): Soil water content and salinity measurement and calibration of dune sand with high salt concentration using WET sensor (Oct. 2004): Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59, pp.62-65 (in Japanese)
- Saito T., Abe Y., Yamamoto T., Inoue M. and Yamada K. (Oct. 2004): Relationship between soil physical properties, vegetation and Topography in arid area of Western Australia, elucidating ecosystem formation factors using regression analysis and obtaining wide-area soil information, Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59, pp.66-67 (in Japanese)
- Mori Y., Kihara Y. and Inoue M. (Oct. 2004): Modification of Multi-step outflow data by improvement of pressure cell, Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59, pp.71-72 (in Japanese)
- Satou,A., Yamamoto T., Ras V Rasian John D Armour, Martin Lionel (Oct.2004) : Improvement of acid sandy soil and ferralsol using artificial zeolite in Australia , Proc. Chugoku-Shikoku branch of Annual Meeting of JSIDRE, 59, pp.96-98
- Cho H., de Rooij G. H. and Inoue M. (Oct. 2004): Fingering Flow under Non-Ponding Infiltration: Development of the Induction Zone and the Initiation of Fingering, Symposium 'Unsaturated zone modeling: Progress, Challenges and Applications', VIII Solute Transport, Wageningen, The Netherlands, 103
- Higashi N., Inoue M. and Mori Y. (Oct. 2004): Application of an Automated Infiltration Soil Water Sampler in Variably Saturated Sandy Soil, 2004 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, 2509 (Seattle, WA, USA)
- Inoue M., Higashi N., Yamazaki S. Inosako K. and Mori Y. (Oct. 2004): Effect of salt concentration on measurement of soil water using various soil moisture sensors based on dielectric constant, 2004 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, 2405 (Seattle, WA, USA)
- Fujimaki H., Ando Y., Cui Y. Inoue M. and Abe Y. (Nov. 2004): Parameter estimation of a root water

uptake model under salinity stress, 2004 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, 2609 (Seattle, WA, USA)

Mori Y., Mortensen A. P., Hopmans J. W., Kluitenberg G. J. and Inoue M. (Nov. 2004): Estimation of Vadose Zone Water Flux from Multi Functional Heat Pulse Probe Measurements, 2004 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, 2501 (Seattle, WA, USA)

Saito S., Fujimaki H. and Inoue M. (Nov. 2004): Dependency of ECH2O soil moisture probe on salt concentration and calibration method, Symposium of Soil Science Society, 46, pp.48-49 (in Japanese)

(3) Reports

Subdivision of Natural Environment

Kimura, R. (Aug. 2004): Studies on the heat and water balances in the Loess Plateau, China, ISBN4-9902265-0-X, 89pp.

Kimura, R. (Jan. 2005): Heat and water balances of the bare soil surface and the potential distribution of vegetation in the Loess Plateau, China, Hatachi Nogyo, 554, pp. 14-20 (in Japanese)

Yano, H., Okada, S., Takayama, N., Kimura, R. and Kamichika, M. (Nov. 2004): Sand movement over Tottori sand dune; Plane analysis of surface sand change, Agricultural meteorology of Chugoku and Shikoku, 17, pp. 2-7 (in Japanese)

Nishikawa, R., Murakami, T., Otsuki, K., Kimura, R., Mizoue, N. and Yoshida, S. (Mar. 2005): Seasonal variation in the spectral reflectance of bamboo using remote sensing data and field measurement data, Kyushu Journal of Forest Research, 58, pp. 119-122 (in Japanese)

Subdivision of Land Conservation

Yamamoto, T., Ould Ahmed B.A. and DehghaniSanij H. (March 2005): Studies on water quality of irrigation water resources in the Tohaku Irrigation Project Areas, The 2004 Annual Report of Grant-in-Arid for the Ministry of Forestry and Fisheries, pp.92-129 (in Japanese)