

2.4 List of Publications, Presentations and Reports

(1) Publications (Apr.1999-Mar.2000)

Subdivision of Natural Environment

- Abe, Y., Otsuki, K. and Kamichika, M. (Jun. 1999): Estimation of water quantity recycled by earth-air heat exchange distillation, *Journal of Agric. Meteorol.* 55(2) pp. 101-108 (in Japanese with English Summary)
- Okada, S., Ito, K., Otsuki, K. and Kamichika, M. (Nov. 1999): Landform monitoring of Tottori sand dune using aerial photographs, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 38(5) pp.28-35
- Kawamura, T., Morohoshi, Y. and Kamichika, M. (Dec. 1999): Three dimensional numeric simulation of the flow field over the Tottori sand dune, *Sand Dune Research*, 46(2) pp.84-91 (in Japanese with English Summary)
- Otsuki, K., Okada, S., Kamichika, M. and Tamai, S. (Dec. 1999): Development and conservation of Tottori sand dune, *Journal of JSIDRE*, 67(12) pp.31-36 (in Japanese)

Subdivision of Water Resources

- Ogino, Y., Murashima, K. and Kitamura, Y. (Jul. 1999): Drainage in Asia (III) - Drainage for waterlogging control in South China -, *Rural and Environmental Engineering*, 37 pp.46-54
- Ahmad, N., Kanwar, R. S., Kitamura, Y. and Yano, T. (Aug. 1999): Effect of soil surface submergence and a subsurface high water table on root and root nitrogen content of corn, *Trans. of JSIDRE*, 202 pp.15-22
- Kitamura, Y., Yano, T. and Yasuda, S. (Feb. 2000): Irrigation-induced salinization of agricultural lands and its remedial measures in the Aral Sea Basin, 8th ICID International Drainage Workshop, New Delhi, pp.539-554 (Vol.1)
- Qiu, G. Y., Ben-Asher, J., Yano, T. and Momii, K. (Nov./Dec. 2000): Estimation of soil evaporation using the differential temperature method, *Soil Science Society of America Journal*, 63 pp.1608-1614
- Kitamura, Y., Yano, T., Yasuda, S. and Oba, T. (Feb. 2000): Water balance in an irrigation block under rice-based cropping system in Central Asia -Research on water management to prevent secondary salinization in arid land (I)-, *Trans. of JSIDRE*, 205 pp.55-64
- Yano, T. and Wang, S. (Mar. 2000): Sustainable irrigated agriculture in arid lands: Kazakstan case study, *Proc. of the 12th Toyota Conference: Challenge of Plant and Agricultural Sciences to the Crisis of Biosphere on the Earth in the 21st Century*, RG. Landes Company, Georgetown, TX, pp.108-113

Subdivision of Plant Ecophysiology

- Inanaga, S. (Jun. 1999): Desertification and its control, *J. Jpn. Sci. Applied Sci.*, 13 (1) pp. 27-31 (in Japanese)
- Yoneyama, K. and Sugimoto, Y. (Jul. 1999): Agriculture in Sudan and damage caused by root parasitic weed, *Chemical Regulation of Plants*, 34 (1) pp. 116-119 (in Japanese)
- Lux, A., Luxsova, M., Morita, S., Abe, J. and Inanaga, S. (Oct. 1999): Endodermal silicification in developing seminal roots of lowland and upland rice (*Oryza sativa* L.), *Can. J. Bot.*, 77 pp. 995-960
- Fudal, H. M., Salih, A. A., Ali, I. A. and Inanaga, S. (Oct. 1999): Use of remote sensing to map fully erosion along the Atbara River, Sudan, *JAG* 1 (3/4) pp. 175-180
- Yoneyama, K. and Sugimoto, Y. (Dec. 1999): Chemical stimulation of seed germination of root parasitic weeds, *Striga* and *Orobanche* spp., *Chemical Regulation of Plants*, 34 (2) pp. 181-190 (in Japanese)

- Sugimoto, Y., Babiker, H. A. A., Inanaga, S., Kato, M. and Isogai, A. (Dec. 1999): Oxoisoaporphines from cultured roots of *Menispermum dauricum*, *Phytochemistry*, 52 (8) pp. 1431-1435
- Sugimoto, Y. (Mar. 2000): Germination stimulant for root parasitic weed, *Kagaku to Seibutsu*, 38 (3) pp. 147-149 (in Japanese)
- Ali, I. A., Kafkafi, U., Yamaguchi, I., Sugimoto, Y. and Inanaga, S. (Mar. 2000): Growth, transpiration, root-born cytokinins and gibberellins, and nutrient compositional changes in sesame exposed to low root-zone temperature under different ratios of nitrate: ammonium supply, *J. Plant Nutr.*, 23 (1) pp. 123-140
- Matsuura, A., Inanaga, S. and Sugimoto, Y. (Mar. 2000): Growth of roots emerged from excised phytomers of three gramineous species under a low osmotic potential, *Plant Prod. Sci.*, 1 (3) pp. 55-60

Subdivision of Plant Production

- Hamamura, K. (Jun. 1999): On germination of 12 leguminous plant species, *Jap. J. Trop. Agr.*, 43 , pp.113-114 (in Japanese with English Table)
- Hamamura, K. (Sept. 1999): Books review: 'Forecasting a destruction of earth' and 'Report II on Global Environmental Changes', *Jap. J. Crop Sci.*, 68 p.363 (in Japanese)

Subdivision of Revegetation and Grassland Development

- Nakayama, S., Kobayashi, T., Sasaki, N., Han, H., Ma, Q., Yamanaka, N. and Tamai, S. (Nov. 1999): Water dynamics of *Pinus tabulaeformis* stand during and after a severe drought., *J. Jpn. For. Soc.* 81(4) pp.311-317 (in Japanese with English Summary)
- Tamai, S. (Nov. 1999): Nature conservation - From an Asian perspective, *Ecological Soc. of Korea* pp. 21 - 28
- Otsuki, K., Okada, S., Kamichika M., Tamai, S. (Dec.1999): Development and conservation of Tottori sand dune., *Jour. JSIDRE* 67(12) PP.31-36 (in Japanese)
- Yamanaka, N., Han, H., Ma, Q., Wang, X., Tamai, S., (Feb. 2000): Stand structure and regeneration of *Pinus tabulaeformis* forest in the Taiyue Forest Region, Shanxi Province, China., *J. Jpn. Soc. Reveget. Tech.* 25(3) pp.230-241 (in Japanese with English Summary)
- Chen, Y., Yamanaka, N. and Tamai, S. (Mar. 2000): Water, nutrient dynamics and the growth of the mixed planting trees for *Quercus serrata* and *Machilus thunbergii*., *Ap. For. Sci.* 9(1) pp.83-88 (in Japanese with English Summary)
- Yamanaka, N., Kiribayashi, M. and Tamai S. (Mar. 2000): Effect of fertilization on the seedling dynamics of *Fagus crenata* BLUME., *Ap. For. Sci.* 9(1) pp.89-94 (in Japanese with English Summary)

Subdivision of Land Conservation

- Wei, J., Yamamoto, T. and Inoue, M. (April 1999): Evaluation of factors which affect plant cover rate by air-seeding - In Yikezhaomeng of Inner Mongolia of China -, *Trans. JSIDRE*, 200 pp.105-111 (in Japanese with English summary)
- Shibusawa, S., Inoue, M., Sasao, A. and Kurohama, N. (June 1999): Variability in soil moisture response to underground tempering irrigation, *Sand Dune Research*, 46(1) pp.7-14 (in Japanese with English summary)
- Fujimaki, H., Inoue, M., Yamamoto, T. and Togashi, T. (June 1999): Determining unsaturated hydraulic conductivity of dune sand at low pressure head from a steady-state evaporation experiment, *Sand Dune Research*, 46(1) pp.15-26 (in Japanese with English summary)
- Fujimaki, H., Inoue, M., Yamamoto, T. and Togashi, T. (June 1999): Determination of unsaturated hydraulic conductivity at low pressure head from a water content profile under steady-state evaporation,

- Trans. JSIDRE, 201 pp.1-12 (in Japanese with English summary)
- Miyamoto, K. and Yamamoto, T. (June 1999): Water management in a paddy area with pipeline irrigation under the condition of water shortage, Trans. JSIDRE 201 pp.89-97 (in Japanese with English summary)
- Inoue, M., Simunek, J., Hopmans, J. W. and Clausnitzer, V. (July 1999): Using a multi-step soil-water extraction technique for in-situ estimation of soil hydraulic properties. *In*: van Genuchten, M.Th., Leij, F.J. and Wu L. (eds.), Proceedings of the International Workshop on Characterization and Measurement of the Hydraulic Properties of Unsaturated Porous Media, University of California, Riverside, CA. pp. 725-736
- Ikeura, H., Yamamoto, T. and Inoue, M. (Oct. 1999): The salinization with waterlogging and development of sustainable irrigated agriculture in the inter-dune lowland in Mu Us Shamo desert, Trans. JSIDRE, 203 pp.85-93 (in Japanese with English summary)
- Yamamoto, T. (Oct.1999): Lecture on environment, study of environment, The Sectional Meeting of Environmental Education, The Universities waste treatment facility conference, The Science News Co., Ltd., Publication Division, pp.31-39 (in Japanese)
- Morii, T., Inoue, M. and Takeshita, Y. (Dec. 1999): In-situ permeability test using pressure infiltrometer method, Trans. JSIDRE, 204 pp.149-158 (in Japanese with English summary)
- Ame-Mensah F., Yamamoto, T. and Inoue, M. (Feb. 2000): Planning for sustainable agriculture in Ghana using tank irrigation , Trans. JSIDRE, 205 pp.75-84
- Miyamoto K., Fujiyama H. and Yamamoto T. (Mar. 2000): Changes on water circulation in the river basin by Tohaku National Irrigation Project, Jour. JSIDRE, 68(3) pp.11-18 (in Japanese)

(2) Presentations (Apr.1999-Mar.2000)

Subdivision of Natural Environment

- Takeda, H., Iwasaki, M., Uchida, M., Kasmir, M., Ito, K., Mitani, S. and Kamichika, M. (Jul. 1999): Fundamental study on utilization of recycled paper for soil surface mulching on arable land –Case of bean cultivation -, Proc. of Sand Dune Research 1999 (in Japanese)
- Gu, S., Otsuki, K. and Kamichika, M. (Jul. 1999): Studies on long-wave radiation from sand surface, Proc. of Agricultural Meteorology 1999, pp. 44-45
- Kamichika, M., Nakagame, E., Otsuki, K., Iwasaki, M. and Ito, K. (Jul. 1999): On the relationships between red bean growth and microclimate modified by recycled paper mulching, Proc. of Agricultural Meteorology 1999, pp. 80-81 (in Japanese)
- Otsuki, K., Nakagame, E., Kamichika, M. and Inoue, M. (Jul. 1999): Effect of paper mulching to modify the soil water content and microclimate, Proc. of Agricultural Meteorology 1999, pp. 82-83 (in Japanese)
- Nakamoto, K., Ushijima, Y., Kamichika, M. and Hayakawa, S. (Jul. 1999): Characteristics of vapor and CO₂ flux at fodder crop canopy under a sandy soil condition, Proc. of Agricultural Meteorology 1999, pp. 86-87 (in Japanese)
- Matsuoka, N., Yoshihara, M., Kamichika, M., Otsuki, K. and Gu, S. (Jul. 1999): Estimation of soil water content in a sand dune field using routine meteorological data, Proc. of Agricultural Meteorology 1999, pp. 94-95 (in Japanese)
- Okada, S., Matsubara, Y., Otsuki, K. and Kamichika, M. (Jul. 1999): Relationships between the terrain of Tottori sand dune and distribution of wind speed and wind direction, Proc. of Agricultural Meteorology 1999, pp. 122-123 (in Japanese)
- Abe, Y. and Kamichika, M. (Nov. 1999): Suppression the upturn of soil temperature using the heating pipe, Agricultural Meteorology of Chugoku and Shikoku 12, pp.88-91

Subdivision of Water Resources

- Kitamura, Y., Yano, T. and Yasuda, S. (May 1999): Water and salt movement in irrigated fields under rice-based cropping system in arid land, Proc. of the 1999 Meeting of the Japanese Association for Arid Land, p.21-22 (in Japanese)
- Qiu, G. Y., Sase, K., Okushima, S., Ben-Asher, J., Yano, T. and Momii, K. (Jul. 1999): Proposal of soil evaporation coefficient using temperature and its characteristics, Proc. of the Annual Meeting of JSIDRE, pp.172-173 (in Japanese)
- Yasuda, S., Kitamura, Y. and Yano, T. (Jul. 1999): Water and salt balance in irrigated lands under crop rotation system in arid land, Proc. of the Annual Meeting of JSIDRE, pp. 202-203 (in Japanese)
- Takeuchi, S., Sasami, I., Kitamura, Y. and Yano, T. (Jul. 1999): Automatic irrigation based on the soil-moisture and sap flow monitoring -Application of sap flow measurement to irrigation management (V)-, Proc. of the Annual Meeting of JSIDRE, pp. 250-251 (in Japanese)
- Inosako, K., Yano, T. and Yoshida, I. (Oct. 1999): Comparison among estimation methods for potential evapotranspiration applicable to upland irrigation planning, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.89-91 (in Japanese)
- Kitamura, Y., Yano, T. and Yasuda, S. (Oct. 1999): Irrigation-induced drainage problems and their remedial measures in the Aral Sea Basin -Research on water management to prevent secondary salinization in rice-based cropping system in arid land-, Proc. of the Annual Meeting of the Kenya Society of Agricultural Engineers, p.13
- Kitamura, Y., Yano, T. and Yasuda, S. (Nov. 1999): Mechanism of secondary salinization and its remedial

measures in irrigated dry lands of Central Asia, Applied Hydrology, No. 12, p.51-61 (in Japanese with English Summary)

Kitamura, Y. and Yano, T. (Mar. 2000): Impact of water management and cropping system on secondary salinization -Case study of large scale irrigated lands in Central Asia-, Jpn. J. Trop. Agr., Vol. 44, Extra issue 1, pp. 69-70 (in Japanese)

Subdivision of Plant Ecophysiology

Babiker, H. A. A., Sugimoto, Y. Saisho, T. Furumoto, T. Inanatga, S. Nakajima, H. and Isogai, A. (Apr. 1999): Alkaloids Isolated from *Menispermum dauricum* root cultures, Abstracts of Annual Meeting of Jpn. Soc. Biosci. Biotech. Agrochem, p. 301

Sugimoto, Y. (May 1999): Combating root parasitic weed in arid regions, Jpn. Soc. Biosci. Biotech. Agrochem. Chugoku Shikoku Block Forum (in Japanese)

Tanimoto, E., Yamamoto, R., Sugimoto, Y. and Inanaga, S. (Oct. 1999): Analysis of viscoelastic properties of root cell walls, Abstracts of the 63th Annual Meeting of the Botanical Society of Japan, p.121

Sugimoto, Y., Yabuta, S., Kinoshita, H., Babiker, A. G. T., Inanaga, S. and Itai, A. (Oct 1999): Identification and characterization of germination responsive genes in root parasitic weed *Striga hermonthica*, Abstracts of the XXXIV Annual Meeting of the Jpn. Soc. for the Chemical Regulation of Plants, p.167-168 (in Japanese)

Nakajima, H., Sato, D., Hatanaka, M., Sugimoto, Y., Yoneyama, K. and Takeuchi, Y. (Oct. 1999): Germination stimulants for weedy root parasites produced by *Fusarium solani*, Abstracts of the XXXIV Annual Meeting of the Jpn. Soc. for the Chemical Regulation of Plants, p.169-170 (in Japanese)

Sugimoto, Y., Miyamoto, M., Sugihara, M. and Inanaga, S. (Oct. 1999): Search for *Striga hermonthica* germination stimulant and haustorium-inducing substance from root cultures, The 12th Naito Conference, Abstracts, p. 131

Kato, M., Ogawa, Y., Kozakai, M. and Sugimoto, Y. (Mar. 2000): Structure and properties of the mono (quinolinolato) complex as an intermediate of bis (quinolinolato) platinum (II), Abstracts of 78th Annual Meeting of the Chem. Soc. Jpn. p.501 (in Japanese)

Sugimoto, Y. (Mar. 2000): Germination stimulants for root parasitic weeds, Abstracts of 25th Annual Meeting of the Pesticide Sci. Soc. Jpn. p. 28 (in Japanese)

Subdivision of Plant Production

Kageyama, N., Nishihara, E., Watanabe, K., and Toyama, M. (Oct.1999): Effects of 5-amino leburic acid on the growth of lettuce, Abstracts of autumn meeting of Japanese Society for Horticultural Science, p.321 (in Japanese)

Yamazaki, S. Aoki, Y. Nishihara, E. and Hamamura, K. (Oct. 1999): Effects of NaCl treatments on growth and flower traits of peony, Abstracts of autumn meeting of Japanese Society for Horticultural Science, p.422 (in Japanese)

Kondo, K., Nishihara, E., Hamamura, K. and Toyama, M. (Oct. 1999): Soil moisture control using embedding type soil water potential sensor in spinach cultivation during summer, Abstracts of autumn meeting of Japanese Society for Horticultural Science, p.453 (in Japanese)

Hamamura, K. (Nov. 1999) : Correlation between survival of cuttings and drought tolerance, Summaries for 34th annual meeting of Jap.Soc. for Chemical Regulation of Plants, pp.174-175 (in Japanese with English table)

Nishihara, E., Takahashi, K., Nakata, N. Inoue, M. and Kondo, K. (July 1999): Soil water movement in a vegetable culture test under different moisture controls, - Growth, yield and quality of spinach during

autumn and spring seasons, Proc. of Japanese Society of Sand Dune Research, 46 pp.22-23 (in Japanese)

Suzuki, K., Inoue, M. and Hamamura, K. (July 1999): Studies on sub-surface irrigation method using porous rubber permeable tube, Proc. of Japanese Society of Sand Dune Research, 46 pp.24-25 (in Japanese)

Subdivision of Revegetation and Grassland Development

Yamanaka, N., Yamakura, T., Magela, G., Tamai, S., (Apr. 1999): Vegetation structure of Caatinga in North-East Brazil., Proc. of Annual Meeting of The Jap. For. Soc. 1999, pp.335-336 (in Japanese)

Nakajima, T. and Yamanaka, N. (May 1999): Woody debris from watershed in a natural forest by the Typhoon No.7, 1998, Proc. of the 1999 Annual Conference of Japan Society of Erosion Control Engineering, pp.76-77 (in Japanese)

Chen, Y., Yamanaka, N. and Tamai, S., (Oct. 1999): Water, nutrient dynamics and the growth of the mixed planting trees for *Quercus serrata* and *Machilus thunbergii.*, Proc. of Annual Meeting of Kansai Branch of The Jap. For. Soc., p.45 (in Japanese)

Yamanaka, N., Kiribayashi, M. and Tamai S. (Oct. 1999): Effect of fertilization on the seedling dynamics of *Fagus crenata* BLUME., Proc. of Annual Meeting of Kansai Branch of The Jap. For. Soc., p.46 (in Japanese)

Subdivision of Land Conservation

Inoue, M., Simunek, J., Shiozawa, S. and Hopmans, J.W. (May 1999): Estimation of soil hydraulic and solute transport parameters from transient column experiments, The XXIV general assembly of European Geophysical Society, 1(2), the Hague, Netherlands, p311

Yamamoto, S., Honna, T., Inoue, A., Honjou, K. and Inoue, M. (July 1999): Salt accumulation process in large sand columns under constant water table, Proc. of Japanese Society of Sand Dune Research, 46, pp.18-19 (in Japanese)

Inoue, M., Urimoto, M., Otsuki, K. and Yamamoto, T. (July 1999): Soil water movement of vegetable cultivation test under different soil moisture conditions, Proc. of Japanese Society of Sand Dune Research, 46 pp.20-21 (in Japanese)

Nishihara, E., Takahashi, K., Nakata, N. Inoue, M. and Kondo, K. (July 1999): Soil water movement in a vegetable culture test under different moisture controls, - Growth, yield and quality of spinach during autumn and spring seasons, Proc. of Japanese Society of Sand Dune Research, 46 pp.22-23 (in Japanese)

Suzuki, K., Inoue, M. and Hamamura, K. (July 1999): Studies on sub-surface irrigation method using porous rubber permeable tube, Proc. of Japanese Society of Sand Dune Research, 46 pp.24-25 (in Japanese)

Otsuki, K., Nakagame, E., Kamichika, M. and Inoue, M. (Jul. 1999): Effect of paper mulching to modify the soil water content and microclimate, Proc. of Agricultural Meteorology 1999, pp. 82-83 (in Japanese)

Yamamoto, T., Yao, HL., Keshavarz, A. and Agodzo, Sk. (July 1999): Analysis of Soil Degradation Due to Irrigated Agriculture and Sustainable Water Management in Arid Land Areas, Proceedings of An American Society American Meeting Presentation, Paper No.99-2243, Toronto, Ontario Canada, pp.18-21

Ikeura, H., Yamamoto, T. and Inoue, M. (Aug. 1999): Sustainable development of groundwater resources and irrigation planning in the inter-dune lowland in Mu Us Shamo desert, Proc. of Annual Meeting of JSIDRE, pp.240-241 (in Japanese)

Wei, J., Yamamoto, T. and Inoue, M. (April 1999): Studies on soil water properties and plant growth on

- north and south inclined planes, Proc. of Annual Meeting of JSIDRE, pp.256-257 (in Japanese)
- Sawada, K., Yamamoto, T., Inoue, M. and Keren, R. (Aug. 1999): Effect of sodium ion concentration and aggregate in saline soil on erosion, Proc. of Annual Meeting of JSIDRE, pp.422-423 (in Japanese)
- Arai, M., Yamamoto, T., Inoue, M. and Keren, R. (Aug. 1999): Hydraulic conductivity of soil with 2:1 clay mineral as affected by water quality under saturated condition Proc. of Annual Meeting of JSIDRE, pp.712-713 (in Japanese)
- Inoue, M. (Aug. 1999): Estimation of soil water and solute transport parameters by the unsteady state infiltration method using four electrode sensors, Proc. of Annual Meeting of JSIDRE, pp.734-735 (in Japanese)
- Morii, T., Akita, Y., Inoue, M. and Takeshita, Y. (Aug. 1999): Measurement of permeability by a pressure infiltrometer method in a sand dune field, Proc. of Annual Meeting of JSIDRE, pp.740-741 (in Japanese)
- Toride, N., Kuukan, S., Cho, H. and Inoue, M. (Aug. 1999): Estimation of unsaturated soil water properties by evaporation method, Proc. of Annual Meeting of JSIDRE, pp.742-743 (in Japanese)
- Mori, Y., Kihara, Y. and Inoue, M. (Aug. 1999): Estimating unsaturated hydraulic conductivity of undisturbed soil using multi-step outflow method, Proc. of Annual Meeting of JSIDRE, pp.744-745 (in Japanese)
- Cho, H., Kimura, H. and Inoue, M. (Aug. 1999): Pressure changing in transient area of fingering flow, Proc. of Annual Meeting of JSIDRE, pp.762-763 (in Japanese)
- Fujimaki, H., Yamamoto, T., Inoue, M. and Okamoto, T. (Aug. 1999): Effect of salt crust on evaporation rate from wetted bare-soil, Proc. of Annual Meeting of JSIDRE, pp.774-775 (in Japanese)
- Kihara, Y., Mori, Y., Inoue, M., Otsuki, K. and Sakaguchi, Y. (Aug. 1999): Transport experiments of water, solute and heat using large columns, Proc. of Annual Meeting of JSIDRE, pp.802-803 (in Japanese)
- Inoue, M. (Aug. 1999): Estimation of water flow and solute transport parameters by inverse method using four electrode infiltration column, Proc. of Annual Meeting of J. Japan Soc. Hydrol. & Water Resour., pp.54-55 (in Japanese)
- Fujimaki, H. and Inoue, M. (Aug. 1999): Estimation of soil water properties by two-stage method during outflow process and evaporation process, Proc. of Annual Meeting of J. Japan Soc. Hydrol. & Water Resour., pp.56-57 (in Japanese)
- Inoue, M. (Oct. 1999): New estimation method of parameters on unsaturated water movement, Proc. of JSIDRE, Branch of Chugoku-shikoku, 54 pp.103-104 (in Japanese)
- Cho, H., De Rooij, G. H., Inoue, M. and Toride, N. (Nov. 1999): Fingering flow: The role of the induction zone below the soil surface and the capillary fringe, 1999 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, Salt Lake City, Utah, USA, pp.183
- Inoue, M., Simunek, J. and Morii, T. (Nov. 1999): Estimating soil hydraulic properties of dune sand from pressure infiltrometer data, 1999 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, Salt Lake City, Utah, USA, pp.183
- Fujimaki, H. and Inoue, M. (Nov. 1999): Two-stage inverse method for determining soil hydraulic properties, 1999 Annual Meetings of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America, Agronomy Abstracts, Salt Lake City, Utah, USA, pp.187
- Inoue, M., Simunek, J. and Morii, T. (Nov. 1999): In-situ estimating hydraulic properties by inverse method using pressure infiltrometer, Symposium of Soil Science Society, 41, pp.13-14 (in Japanese)
- Yamamoto, T. (Nov.1999): Sand field irrigation-General remark for water saving irrigation-, Present condition and future prospect of sand field agriculture, the 50th memorial public lecture meeting, the Science Council of Japan (in Japanese)

(3) Reports (Apr.1999-Mar.2000)

Center

Hamamura, K., (*Ed.*) (Mar. 2000): Researches on the establishment of plant production system using sea water in the coastal arid areas, Report of COE Supporting Program 1995-1999, pp.94 (in Japanese)

Subdivision of Natural Environment

Kamichika, M. (Mar. 2000): Influence of the dam construction on the climate of surrounding area, Report of subcommittee for reevaluation on 'Chubu-Dam', Tottori prefecture, pp. 29-32 (in Japanese)

Subdivision of Water Resources

Yano, T. and Honna, T. (Jun. 1999): Study on the present situation of salt accumulation and reclamation of salt-affected soils, Global Environment Research of Japan, Research and Information Office, Global Environment Department, Environment Agency, p.241

Yano, T. (Jun. 1999): Study on reclamation of salt-affected soils, Global Environment Research of Japan (Final Reports for Projects Completed in 1998) Part 2, Research and Information Office, Global Environment Department, Environment Agency, pp.339-342

Yano, T. (Jun. 1999): Study on reclamation of salt-affected soils, Final Report for Global Environment Research 'Studies on the Development of Technology for the Rehabilitation of Soil with Salt Accumulation in Central Asia', Japan International Research Institute for Agricultural Sciences, pp.8-19 (in Japanese)

Kitamura, Y. (Jun. 1999): Study on the establishment of leaching technology and prevention of secondary salinization, Global Environment Research of Japan, Research and Information Office, Global Environment Department, Environment Agency, p.242

Kitamura, Y. (Jun. 1999): Study on the establishment of leaching technology and prevention of secondary salinization, Global Environment Research of Japan (Final Reports for Projects Completed in 1998) Part 2, Research and Information Office, Global Environment Department, Environment Agency, pp.343-352

Kitamura, Y. (Jun. 1999): Study on the establishment of leaching technology and prevention of secondary salinization, Final Report for Global Environment Research 'Studies on the Development of Technology for the Rehabilitation of Soil with Salt Accumulation in Central Asia', Japan International Research Institute for Agricultural Sciences, pp.21-36 (in Japanese)

Kitamura, Y. (Mar. 2000): Report on 8th ICID International Drainage Workshop, Japanese Institute of Irrigation and Drainage, 13p (in Japanese)

Subdivision of Plant Ecophysiology

Sugimoto, Y. (Mar. 2000): Studies on germination stimulants for root parasitic weeds produced by root cultures of non-host plants, Report for Monbusho Grant-in Aid for Scientific Research (C) (in Japanese)

Subdivision of Plant Production

Hamamura, K. (Mar. 2000): Genetic Analysis of Salt Tolerance of Halophytes. Report of COE Supporting Program, pp.21-23 (in Japanese)

Toyama, M. (Mar. 2000): Effects of Diluted Sea-water on Growth of Several Leafy Vegetables, Report of COE Supporting Program, p. 24

Subdivision of Revegetation and Grassland Development

Yamanaka, N., Nagamasu, H. and Umebayashi, M. (Mar. 2000): Seedlings of woody plants in the Kyoto

- University Forest in Ashiu 8. Elaeagnaceae, Tiliaceae, Arariaceae, Report for Monbusho Grant-in Aid for Scientific Research (C) (2) ‘ Natural history of seedling – studies of morphological diversity of seedlings’ (Representation: Nagamasu, H.), pp.10-19 (in Japanese with English Summary)
- Yamanaka, N., Nagamasu, H. and Umebayashi, M. (Mar. 2000): Seedlings of woody plants in the Kyoto University Forest in Ashiu 9. Compositae, Caprifoliaceae., Report for Monbusho Grant-in Aid for Scientific Research (C) (2) ‘ Natural history of seedling – studies of morphological diversity of seedlings’ (Representation: Nagamasu, H.), pp.20-33 (in Japanese with English Summary)
- Nagamasu, H., Yamanaka, N. and Umebayashi, M. (Mar. 2000): Seedlings of woody plants in Japan., Report for Monbusho Grant-in Aid for Scientific Research (C) (2) ‘ Natural history of seedling – studies of morphological diversity of seedlings’ (Representation: Nagamasu, H.), pp.34-194 (in Japanese)

Subdivision of Land Conservation

- Yamamoto, T., Fujiyama, H., Honna, T., Yasuda, H., Ogawa, K. and Kageyama, S. (Feb.2000): Improvement of salinity soil by using artificial zeolite-Sustainable irrigation schedules in arid lands-, Research report of Center for Joint Research and Development Tottori University, No.3, pp.100-104 (in Japanese)
- Yamamoto, T. (Mar. 2000): Studies on water quality of irrigation water resources in the Tohaku Irrigation Project Areas, The 1999 Annual Report of Grant-in-Arid for the Ministry of Forestry and Fisheries, pp.106-124 (in Japanese)
- Cho, T., Toride, N., Inoue, M. and de Rooji, G. H. (Mar. 2000): Fingered flow occurred in the unsaturated soil layer, Research Report for Monbusho a Grant-in Aid for Scientific Research (C) (2), pp.1-70 (included in Japanese)