

2.4 List of Publications, Presentations and Reports

(1) Publications (Apr.1995-Mar.1996)

- Kamichika, M.** (Jul. 1995) : Ecological comparison between desert and coastal sand dune, JSME FED News Letter, 21, pp.1-3 (in Japanese)
- Otsuki, K., Tanaka, N., Akae, T. and Nagahori, K.** (Jul. 1995) : Verification of applicability of isotropic and anisotropic models to estimate global solar radiation on tilted surface, J.Jap. Soc. Hydrol. & Water Resour., 8(4), pp.399-407 (in Japanese with English summary)
- Mase, T. and Otsuki, K.** (Oct. 1995) : Agricultural Water Supply in Indus River Basin -Its Light and Darkness-, Water Science, 39(4), pp.36-58 (in Japanese)
- Zhou, Jian-zhong, Otsuki, K. and Kamichika, M.** (Dec 1995) : Changes of Livestock Farming in the Inner Mongolia of China, Journal of Arid Land Studies, 5, pp.71-84 (in Japanese with English summary)
- Ishikawa, M., Otsuki, K. and Kamichika, M.** (Mar. 1996) : Distillation System using Solar Heat and Temperature Difference between Soil and Air, J. JSIDRE, pp.225-230 (in Japanese)
- Momii, K., Otsuki, K. and Yano, T.** (Jun. 1995) : Water requirements of drip-irrigated cabbage at the central arid lands in California Peninsula, Mexico, Trans. of JSIDRE, 177, pp. 99-104 (in Japanese with English summary)
- Qiu, G.Y., Yano, T. Momii, K. and Shi, Q.H.** (Mar. 1995) : The succession of planted communities in Tenggeri Desert in relation to root distribution and soil moisture status, Journal of Arid Land Studies, 4, pp. 81-89
- Takeuchi, S., Yamada, T., Momii, K. and Yano, T.** (Dec. 1995) : Measurement on sap flow rate for estimating transpiration, In:Soil moisture control in arid to semi-arid region for agro-forestry, Tokyo University of Agriculture Press, Japan, pp. 127-132
- Sun, J., Ma, Y., Zhao, C., Chen, H., Inanaga, S. and Takeda, K.** (Mar. 1995) The influencing factors to dry land rice production in salinized and easily waterlogged lowland - A case study from Qiwanmu of Nanpi county, Hebei Province. Eco-agricultural Research, 3(1), pp.53-57 (In Chinese with English summary)
- Onai, N., Tsunokawa, Y., Suda, M., Watanabe, N., Nakamura, K., Sugimoto, Y. and Kobayashi, Y.** (Dec. 1995) Inhibitory effects of bisbenzylisoquinoline alkaloids on induction of proinflammatory cytokines, interleukin-1 and tumor necrosis factor- . *Planta Medica*, 61(6), pp.497-501.
- Ali, I., Kafkafi, U., Yamaguchi, I., Sugimoto, Y. and Inanaga, S.** (Mar. 1996) Effects of low root temperature on sap flow rate, soluble carbohydrates, nitrate contents and on cytokinin and gibberellin levels in root xylem exudate of sand-grown tomato. *J. Plant Nutr.*, 19(2&3), pp.619-634
- Sugimoto, Y., Uchida, S., Inanaga, S., Kimura, Y., Hashimoto, M. and Isogai, A.** (Mar. 1996) : Early steps of dauricine biosynthesis in cultured roots of *Menispermum dauricum*. *Biosci. Biotech. Biochem.*, 60(3), pp.503-505
- Babiker, A.G.T., Ma, Y.Q., Sugimoto, Y. and Inanaga, S.** (Mar. 1996) *Striga hermonthica* (DEL) Benth: A potent germination stimulant(s) from *Menispermum dauricum* root culture. Proc. of the 2nd Asian Crop Science Conference pp.568-569
- Yamagishi, J., Etoh, K., Yajima, T., Suzuki, H. and Inanaga, S.** (Mar. 1996) Varietal difference in the number of spikelets per panicle in rice plants, Proc. of the 2nd Asian Crop Science Conference pp.514-515
- Deng, X., Shan, L. and Inanaga, S.** (Mar. 1996) Daily photosynthetic characteristics of spring wheat in four growth stages on the loess plateau of China, Proc. of the 2nd Asian Crop Science Conference pp.560-561
- Yamanaka, N., Nagamasu, H. and Umebayashi, M.** (Dec. 1995) : Seedlings of woody plants in the Kyoto University Forest in Ashiu. 5. Vitaceae, Sabiaceae and Alangiaceae., *J. Phytogeogr. Taxon*, 43, pp. 25-36 (in Japanese with English summary)
- Yamanaka, N.** (Dec. 1995) : Vegetative characteristics of Male and Female *Lindera umbellata* Thunb. (Lauraceae) in a Natural Beech Forest., *J. Phytogeogr. Taxon*, 43, pp. 59-65 (in Japanese with English summary)
- Naruoka, M., Yamamoto, T., Tanaka, A. and Inoue, M.** (Apr.1995) : Two-dimensional analysis of capillary supply by crop water uptake under drip irrigation, Trans. of JSIDRE, (176) pp.23-31 (in Japanese with

English summary)

Naruoka, M., Yamamoto, T., Nishio, T. and Tobikawa, Y. (Jun.1995) : Actual condition of water use and efficient water application in HOJO Sand Dune Fields, Sand Dune Research, 42(1) pp.11-19 (in Japanese with English summary)

Yokotsuka, S., Yamamoto, T., Sugiyama, Y. and Segawa, S. (Oct.1995) : Growth properties of arboreous plants on artificial bed soil -Utilization studies of revegetation in steep slope using artificial bed soil with continuous fibers-, Trans. of JSIDRE, (179), pp.133-140 (in Japanese with English summary)

Yokotsuka, S., Yamamoto, T., Tanaka, A., Inoue, M., Sugiyama, Y. and Segawa, S. (Dec.1995) : Water movement due to water consumption process in artificial bed soil -utilization studies of revegetation in steep slope using artificial bed soil with continuous fibers-, Trans. of JSIDRE, 180, pp.39-47 (in Japanese with English summary)

Naruoka, M., Yamamoto, T., Tanaka, A. and Inoue, M. (Dec.1995) : Two-dimensional analysis of capillary supply by irrigation and crop water uptake under drip irrigation, Trans. of JSIDRE, 180, pp.143-152 (in Japanese with English summary)

(2) Presentations(Apr.1995-Mar.1996)

Otsuki, K., Kamichika, M. and Kondo, M. (Jun. 1995) : Sand movement affected by vegetation remove -Sand movement in the Tottori Sand Dunes-, Proc. of Sand Dune Research 1995, pp.10-11 (in Japanese)

Fujita, T., Sugawara, A., Iwasaki, M., Ito, K., Mitani, S., Kamichika, M. and Abe, Y. (Jun. 1995) : Basic studies on the use of reproduced paper as mulch -Cultivation of autumn radish in summer-, Proc. of Sand Dune Research 1995, pp.24-25 (in Japanese)

Otsuki, K., Ezuka, T. and Kamichika, M. (Jul. 1995) : Studies on monitoring vegetation stress using spectral reflectance, Proc. of Annual Meeting of JSIDRE, pp. 182-183 (in Japanese)

Kihara, Y., Otsuki, K., Fukuzakura, S. and Momii, K. (Jul. 1995) : Movement of water, salt and heat through the soil with a gravel layer, Proc. of Annual Meeting of JSIDRE, pp. 630-631 (in Japanese)

Ezuka, T., Otsuki, K. and Kamichika, M. (Jul. 1995) : Evaluation of stress of lawn grass using spectral reflectance, Proc. of Agr. Met. Japan 1994, pp.86-87 (in Japanese)

Kimura, R., Otsuki, K. and Kamichika, M. (Jul. 1995) : Relationship between roughness parameter and zero plane displacement in the wind profile equation, Proc. of Agr. Met. Japan 1994, pp.124-125 (in Japanese)

Otsuki, K. and Momii, K. (Jul 1995) : Energy balance of large scale alfalfa field in the cool coastal desert in Mexico, Proc. of Agr. Met. Japan 1994, pp.136-137 (in Japanese)

Ishikawa, M., Otsuki, K. and Kamichika, M. (Jul 1995) : Basic studies on purification of sea water using soil-air heat exchange distillation, Proc. of Agr. Met. Japan 1994, pp.176-177 (in Japanese)

Ito, K., Otsuki, K. and Kamichika, M. (Jul. 1995) : Monitoring *Microcystis* using aquasensor, Proc. of Agr. Met. Japan 1994, pp.178-179 (in Japanese)

Kihara, Y., Miura, T. and Otsuki, K. (Oct. 1995) : Seasonal change of matric potential of upland field in Tohoku district, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.110-112 (in Japanese)

Oue, H., Otsuki, K., Ogino, Y. and Tsutsui, A. (Oct. 1995) : Status quo of irrigation farming in Amudaria Delta of Aral Sea Basin, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.113-115 (in Japanese)

Ito, K., Otsuki, K. and Kamichika, M. (Oct. 1995) : Monitoring *Microcystis* using aqua-light-sensor, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.127-129

Ishikawa, M., Otsuki, K. and Kamichika, M. (Oct. 1995) : Basic studies of purification of sea water using solar energy, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.180-181 (in Japanese)

Kamichika, M., Otsuki, K. and Hayakawa, S. (Oct. 1995) : Evaluation of atmospheric vapor in boundary layers as water resources, Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku, pp.49-52 (in Japanese)

Ito, K., Otsuki, K. and Kamichika, M. (Nov. 1995) : Monitoring *Microcystis* using spectral sensor, Applied Hydrology, 8, pp.37-43 (in Japanese)

- Kimura, R., Otsuki, K. and Kamichika, M.** (Nov. 1995) : Estimation of evapotranspiration using the estimated canopy temperature by Bulk method, *Applied Hydrology*, 8, pp.67-72 (in Japanese)
- Oue, H., Otsuki, K., Ogino, Y. and Tsutsui, A.** (Mar. 1996) : Status quo of hydrological environment and agricultural land use in the Amudaria river basin, Third symposium on the problems in the Aral Sea Basin, pp.27-32 (in Japanese)
- Otsuki, K., Oue, H., Ogino, Y. and Tsutsui, A.** (Mar. 1996) : Climatological evaluation of agricultural productivity in the Aral Sea basin, Third symposium on the problems in the Aral Sea Basin, pp.23-38 (in Japanese)
- Takeuchi, S., Kawaharada, R., Yano, T., Momii, K. and Hiroshige, H.** (Jul. 1995) : Measurement of evapotranspiration by using stem flow measurement in the field, *Proc. of Annual Meeting of JSIDRE*, pp. 178-179 (in Japanese)
- Qiu, G.Y., Momii, K. and Yano, T.** (Jul. 1995) : Detection of crop water stress by imitation leaf temperature, *Proc. of Annual Meeting of JSIDRE*, pp. 180-181 (in Japanese)
- Odani, H., Yano, T. and Arakawa, F.** (Jul. 1995) : Condition of function fitting for air temperature and humidity profiles in the Bowen ratio energy balance method, *Proc. of Annual Meeting of JSIDRE*, pp. 186-187 (in Japanese)
- Wang, S.X. and Yano, T.** (Jul. 1995) : Effects of salinity and K/Na ratio on soybean growth, *Proc. of Annual Meeting of JSIDRE*, pp. 548-549
- Momii, K., Qiu, G.Y. and Yano, T.** (Aug. 1995) : Daily transpiration in a sand dune field *Proc. 1995 Annual Conference of Japan Society of Hydrology and Water Resources*, pp. 10-11 (in Japanese)
- Miyamoto, K., Yano, T. and Wang, S.X.** (Oct. 1995) : Transpiration under saline water irrigation - Effect of salinity of irrigation water and environmental conditions -, *Proc. of Annual Meeting of JSIDRE, Branch of Chugoku-Shikoku*, pp. 150-152 (in Japanese)
- Takeuchi, S., Kawaharada, R. and Yano, T.** (Nov. 1995) : Trial for irrigation scheduling by using crop transpiration, *Applied Hydrology*, 8, pp. 51-57 (in Japanese)
- Takeuchi, Y., Inoue, M., Toyama, M. and Kitamura, T.,** (May 1995) : Study on practical aspects of cultivation on a sandponics bed system. First report, relationship between growth of melon and water in soil, *Proc. of Sand Dune Research 1995* pp.26-27 (in Japanese)
- Matsuura, A., Sugimoto, Y. and Inanaga, S.** (Apr. 1995) Interspecific differences among four gramineous crops in growth response to soil drying. *Jpn.J.Crop Sci.*64 Extra issue 1, pp.188-189. (in Japanese)
- Sugimoto, Y., Uchida, S., Inanaga, S., Kimura, Y. and Isogai, A.,** (1995) Biosynthesis of dauricine in cultured roots of *Menispermum dauricum*(D.C.). Abstracts of annual meeting of Japan Soc. Biosci. Biotech. Biochem. pp.72.
- Sugimoto, Y., Uchida, S., Inanaga, S. and Isogai, A.,** (1995) Effects of P-450 inhibitor on biosynthesis of bisbenzylisoquinoline. Abstracts of annual meeting of Japan Soc. Biosci. Biotech. Biochem. pp.72.
- Segawa, S., Yamamoto, T., Tanaka, A. Inoue, M. and Yokotsuka, S.** (Apr.1995) : Microirrigation for artificial revegetation bed soil focused on arid lands, *Proc. of the Fifth International Microirrigation Congress*, pp.812-817
- Ohkoshi K., Yokotsuka, S., Yamamoto, T., Inoue, M. and Segawa, S.** (Jul.1995) : Characteristics of soil moisture content under sand mulching on artificial bed soil using with drip irrigation-irrigation scheduling for artificial bed soil under arid land condition(1)-, *Proc. of JSIDRE* pp.276-277 (in Japanese)
- Yokotsuka, S., Ohkoshi K., Yamamoto, T. and Segawa, S.** (Jul.1995) : Irrigation effect of revegetation plant grown on on artificial bed soil under drip irrigation -irrigation scheduling for artificial bed soil under arid land condition(2)-, *Proc. of JSIDRE* pp.276-277 (in Japanese)
- Fujimaki H., Yamamoto, T., Inoue, M. and Nakano, M.** (Jul.1995) : Handling of numerical dispersion for numerical analysis of salt accumulation near soil surface due to evaporation, *Proc. of JSIDRE* pp.622-623 (in Japanese)
- Umetani, Y. and Inoue, M.** (Sep.1996) : Proposal of soil water pressure measurement in unsaturated land, *Proc. of Civil Engineering* 50 pp. 124-125 (in Japanese)
- Naruoka, M., Yamamoto, T., F. Sugimoto and Terada, T.** (Oct.1995) : Effect of super moisture absorbent fiber under irrigation condition in a sandy soil, *Proc. of JSIDRE, Branch of Chugoku-Shikoku* 50 pp.105-106 (in Japanese)

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Yamamoto, T. (Oct.1995) : Sustainable development of irrigated agriculture-focusing on Khuzestan province in Iran-, Proc. of JSIDRE, Branch of Chugoku-Shikoku 50 pp.116-117 (in Japanese)

Agodzo, S.K., Nishio, T. and Yamamoto, T. (Oct.1995) : Grasshouse and open field microclimatology in irrigation, Proc. of JSIDRE, Branch of Chugoku-Shikoku 50 pp.148-149(in Japanese)

(3) Reports(Apr.1994-Mar.1995)

Okumura, T., Akagi, S. and Kamichika, M. (Oct.1996) : Measurement on mass transportation, drift level and particle size distribution of sand dune in arid area of China, Report for Science and Technology Agency

Otsuki, K. (Jan. 1996) : Characteristic of climate and evapotranspiration in the Gorbi river basin, Report on Hydrological Analysis for Establishing Technology for Water Resource Development, pp.29-42 (in Japanese)

Otsuki, K. (Mar. 1996) : Monitoring plant plankton using spectral light sensor, The 1995 annual report of grant-in aid for the Ministry of Agriculture, Ministry of Forestry and Fisheries, pp.85-106 (in Japanese)

Otsuki, K. (Mar.1996) : Climatological evaluation of agricultural productivity in arid land, Report on the result of Monbusho Grant-in Aid for Scientific Research B, pp.64-69 (in Japanese)

Otsuki, K. (Mar. 1996) : Research on the tentative upland water requirement at low level before accomplishment of the project, JSIDRE report on the water requirement plan and upland irrigation method for the Kochi-Seinan Reclamation and Construction Project, pp.1-18 (in Japanese)

Otsuki, K. and Amaya, T. (Mar.1996) : Relationship between crop production and concentration of salt and necessity of leaching water -On the salinity tolerance of crops-, JSIDRE report on the leaching system for the agricultural land antidisaster project in the Yoshino River Delta, pp.42-62 (in Japanese)

Otsuki, K. (Mar.1996) : Evaluation of water requirement of lawn grass, Upland Agricultural Development Association Report on the planning of irrigation system for the Tohaku Irrigation and Drainage Project, pp92-124 (in Japanese)

Otsuki, K. (Mar.1996) : Technical discussion on irrigation and drainage in Pakistan, JIID report on the monitoring system of water and land resources for agriculture, pp.109-147 (in Japanese)

Yano, T. (Mar. 1996) : Preliminary research on development of technology for rehabilitation of salt accumulated soils in the Central Asia, Report for Environment Agency (in Japanese)

Inanaga, S. and Sugimoto, Y. (Mar. 1996) Analysis of growth response of crops to constant and variable root temperatures, Report of Monbusho grant-in-aid for scientific research B.

Inanaga, S. (Mar. 1996) Landscape survey by captive balloon with camera and application of high ridge cultivation at salinized and easily waterlogged low land in Nanpi county, Hebei province, China, Reports of a new program for promotion of basic sciences "Studies of global environmental change with special reference to Asia and Pacific regions", 11-2, pp.107-108.

Tamai, S. (Mar.1996) : Regeneration mechanisms of woody plants on sand dunes, Report on the result of Monbusho Grant-in-Aid for Scientific Research C.

Okazaki, J., Yamanaka, N., Matsui, K. and Kinishita, E. (Mar.1996) : A checklist of sexual system of Angiosperm species and genera in the Japanese Flora II. Annual Report of Botanic Garden, Faculty of Science, Kanazawa Univ. 19

Agodzo, S.K., Nishio, T. and Yamamoto, T. (Feb.1996) : Research report on microirrigation of Okura(*Hibiscus esculentus*)-irrigation schedules and water management through evapotranspiration monitoring-, Report of Monbusho Grand-in-Aid for JSPS Fellows, pp.1-41

Yamamoto, T. (Mar. 1996) : Studies on water quality of irrigation water resources in the Tohaku Irrigation Project Areas, The 1995 annual report of grant-in aid for the Ministry of Agriculture, Ministry of Forestry and Fisheries, pp.74-84 (in Japanese)