

### Publication List of ICCAP

#### Papers reviewed (refereed)

##### 【Climate】

- Aoki, I., Y. Kurosaki, R. Osada, T. Sato, and F. Kimura 2005: Dust storms generated by mesoscale cold fronts in the Tarim Basin, Northwest China, *Geophys. Res. Lett.*, 32-3, L06807 doi,10.1029/2004GL021776.
- Ashrit, R., A. Kitoh, and S. Yukimoto 2005: Transient response of ENSO-monsoon teleconnection in MRI-CGCM2.2 climate change simulations, *J. Meteor. Soc. Japan*, 83, 273-291.
- Fujita, M., T. Sasaki, and F. Kimura 2006: A Dramatic Daytime Decrease in Water Vapor over Coastal Thailand, *SOLA*, 2, 49-52.
- Geethalakshmi, V., A. Yatagai, K. Palanisamy, and C. Umetsu 2006: Impact of ENSO and the Indian Ocean Dipole on the Northeast Monsoon Rainfall of Tamil Nadu state in India. *Submitted to Hydrological Processes*. (under 2nd review)
- Iizumi, T., Y. Hayashi, and F. Kimura 2006: Influence of global warming on rice production in Japan in years with a hot summer and cool summer, accepted by *Journal of Agricultural Meteorology*.
- \* Iizumi, T., Y. Hayashi, and F. Kimura 2007: Influence on rice production in Japan from cool and hot summers after global warming, *J. Agric. Meteor.*, 63. (in press)
- \* Iizumi, T., M. E. Hori, M. Yokozawa, H. Nakagawa, Y. Hayashi, and F. Kimura 2006: Impact of global warming on rice production in Japan based on five coupled Atmosphere-Ocean GCMs, *SOLA*, 2, 156-159.
- \* Iizumi, T., F. Kimura, and Y. Hayashi 2006: Impact of climate-model bias on changes in rice yield caused by global warming, *Climatic Change*. (under review)
- \* Iizumi, T., M. Yokozawa, Y. Hayashi, and F. Kimura 2006: Global warming impact on rice insurance payouts in Japan, *Agric. and Forest Meteor.* (under review)
- Kawase, H., T. Sato, and F. Kimura 2005: Numerical experiments on cloud streets in the lee of island arcs during cold-air outbreaks. *Geophys. Res. Lett.*, 32 L14823 doi,10.102972005GL023256.
- Kawase, H., Y. Takeuchi, and F. Kimura 2006: Precipitable water vapor round orographically induced convergence line, *SOLA*, 2, 25-28.
- Kitoh, A., M. Hosaka, Y. Adachi, and K. Kamiguchi 2005: Future projections of precipitation characteristics in East Asia simulated by the MRI CGCM2, *Adv. Atmos. Sci.*, 22, 467-478.
- Nohara, D., A. Kitoh, M. Hosaka, and T. Oki 2006: Impact of climate change on river discharge projected by multi-model ensemble, *J. Hydrometeor.*, 7, 1076-1089.
- Okamura, O. and F. Kimura 2003: Behavior of GPS-derived precipitable water vapor in the mountain lee after the passage of a cold front. *Geophys. Res. Lett.*, 30, 1746, doi,10.1029/2003GL017572.
- Sato, T. and F. Kimura 2003: A two-dimensional numerical study on diurnal cycle of mountain lee precipitation, *J. Atmos. Sci.*, 60, 1992-2003.
- Sato, T. and F. Kimura 2005: Impact of diabatic heating over the Tibetan plateau on subsidence over Northeast Asian arid region. *Geophys. Res. Lett.*, 32-3, L05809, doi,10.1029/2004GL022089.
- Sato, T. and F. Kimura 2005: Diurnal cycle of Convective Instability around the Central Mountains in Japan during the Warm Season. *J. Atmos. Sci.*, 62-5, 1626-1636.
- Sato, T. and F. Kimura 2006: How does Tibetan Plateau affect transition of Indian monsoon rainfall? Accepted by *Monthly Weather Review*.
- Sato, T., F. Kimura, and A. Kitoh 2006: Projection of global warming onto regional precipitation over Mongolia using a regional climate model, accepted by *Journal of Hydrology*.

- Tsunematsu, N., T. Sato, F. Kimura, K. Kai, Y. Kurosaki, T. Nagai, H. Zhou, and M. Mikami 2005: Extensive dust outbreaks following the morning inversion breakup in the Taklimakan Desert, *J. Geophys. Reserch*, 110, D2120710,1029/2005JD005994.
- Wang, Y., L. R. Leung, J. L. McGregor, D. - K. Lee, W. - C. Wang, Y. Ding, and F. Kimura 2004: Regional climate modeling: Progress, Challenges, and Prospects, *J. Meteor. Soc. Japan.*, 82, 1599-1628.
- Xie, P., A. Yatagai, M. Chen, T. Hayasaka, Y. Fukushima, C. Liu, and Y. Song 2006: A Gauge-Based Analysis of Daily Precipitation over East Asia, *J. Hydrometeor.* (in press)
- Yatagai, A. 2003: Hydrological balance and its variability over the arid/semi-arid regions in the Eurasian Continent seen from ECMWF 15-year reanalysis data, *Hydrological Processes*, 17, 2871-2884.
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- \* Yatagai, A., F. Kimura, A. Kitoh, and T. Watanabe 2006: Analyses of precipitation for assessing global warming impacts on hydrological regime in Adana, Turkey, Proceeding of the International Symposium on Water and Land Management for Sustainable Irrigated Agriculture, at Cukurova University, Adana-Turkey, April 4-8, 2006.
- Yatagai, A., N. Yamazaki, and T. Kurino 2007: The products and validation of GAME reanalysis and JRA-25 Part 1: Surface Fluxes, *Hydrological Processes*. (in press)
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- Yatagai, A., M. Sugita, N. Yamazaki, and M. Oh'izmi 2003: A comparative study of the surface fluxes derived from meteorological four dimensional data assimilation products (GAME reanalysis) with Asian Automatic Weather Station Network (AAN) observations over the Tibetan Plateau, Proceedings of the 1st international conference on Hydrology and Water Resources in Asia Pacific Region, APHW2003, 722-727.
- \* Yatagai, A., P. Xie and P. Alpert 2007: Development of a daily grid precipitation data set: Toward evaluation of global warming effects on water resources in the East Mediterranean, *Advance in Geophysics*. (submitted)
- Yoshikane, T. and F. Kimura 2003: Formation Mechanism of the Simulated SPCZ and Baiu front using a Regional Climate Model, *J. Atmos. Sci.*, 60, 2612-2632.

## **【Hydrology】**

- \* Fujihara, Y., T. Kojiri, K. Tomosugi, H. Irie, and N. Sakata 2005: Impacts of Climate Change on the Water Utilization Planning of Reservoirs, *Engineering for Dams*, 230, 3-11. (in Japanese)
- \* Fujihara, Y., M. Ode, T. Kojiri, K. Tomosugi, and H. Irie 2006: Effects of Global Warming on the Water Resources of the Tone River Basin, *Annual Journal of Hydraulic Engineering*, 50, 367-372. (in Japanese)
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- \* Tanaka, K., Y. Fujihara, T. Watanabe, T. Kojiri, and S. Ikebuchi 2006: Projection of the impact of climate change on the surface energy and water balance in the Seyhan River Basin Turkey, *Annual Journal of Hydraulic Engineering*, JSCE, 50, 31-36.
- Taniguchi, M., T. Ishitobi, and J. Shimada 2006: Dynamics of submarine groundwater discharge and freshwater-seawater interface, *J. Geophys. Res.*, 111, C01008, doi,10.1029/2005JC002924.
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### **【Crop】**

- Kobata, T. and N. Uemuki 2004: High Temperatures during the grain filling period do not reduce the potential grain dry-matter increase of rice. *Agronomy Journal*, 96,406-414.
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- Ohsumi, A., A. Hamasaki, H. Nakagawa, H. Yoshida, T. Shiraiwa, and T. Horie 2007: A model explaining genotypic and ontogenetic variation of leaf photosynthetic rate in rice (*Oryza sativa* L.) based on leaf nitrogen content and stomatal conductance, *Annals of Botany*. (in press)
- Shiraiwa, T., H. Nakagawa, T. Horie, T. Matsui, and K. Homma 2002: Variability of rice production in Thailand and effects of rainfall on that, *Global Environment*, 6, 207-215. (in Japanese)
- Watanabe, T., J. S. Hanan, P. M. Room, T. Hasegawa, H. Nakagawa, and W. Takahashi 2005: Rice morphogenesis and plant architecture: measurement, specification and the reconstruction of structural development by 3D architectural modeling. *Annals of Botany*, 95, 1131-1143.
- Yamada, T., N. Akiba, T. Yano, and Y. Kitamura 2004: Estimation of crop transpiration from a corn field with leaf temperature measurements, *Journal of Arid Land Studies*, 14(1), 17-26. (in Japanese)

### **【Vegetation】**

- Hirata, M. 2007: “Seasonal Movement System of Pastoral Camps in the central Mongolia-Could sedentarization possibly happen on pastoral subsistence ?-” *Journal of Arid Land Studies*,17-(2). (in press) (in Japanese)
- Hirata, M., I. Kaihotsu, B. Damdin, Y. Toukura, and A. Hongo 2005: Seasonal Movement System of Pastoral Camps in Dund-Govi Prvince, Mongolia *Journal of Arid Land Studies*,15-(3),139-149. (In Japanese)
- Sano, J., S. Tamai, M. Ando, and K. Kato 2006: Effects of Climate Change on the Species Composition and Vegetation Productivity in Arid Areas - Species Composition and Distributional Patterns of Predominant Tree Species in the Eastern Mediterranean Region of Turkey -. Abstracts of the Second Scientific Congress of East Asian Federation of Ecological Societies, 499.

### **【Irrigation and Drainage】**

- Chakravorty, U. and C. Umetsu 2003: Basinwide Water Management: A Spatial Model, *Journal of Environmental Economics and Management*, 45(1), 1-23.

- \* Hoshikawa, K., T. Nagano, T. Kume, and T. Watanabe 2006: Development of a model for assessing the performance of irrigation management systems and evaluation of impact of climate changes on the Lower Seyhan Irrigation Project, Proc. of International Symposium on Water and Land Management for Sustainable Irrigated Agriculture, Adana, Turkey.
- \* Hoshikawa, K., T. Nagano, T. Kume, R. Kanber, and T. Watanabe 2006: Evaluation of climate change impacts on the Lower Seyhan Irrigation Project, Turkey, Proc. of the 3rd conference of Asia Pacific Association of Hydrology and Water Resources (APHW), Bangkok, Thailand. (CD-ROM)
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- Kume, T., E. AKÇA, T. Nagano, S. Donma, M. Serdem, S. Kapur and T. Watanabe 2006: The problem of Soil Salinity in the Fourth Stage Area in LSIP- An Analysis of Spatial Variability of Soil Salinity -: Water and land management for Sustainable irrigated agriculture, Çukurova University Press. (CD-ROM)
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- \* Nagano, T., K. Hoshikawa, S. Donma, T. Kume, and T. Watanabe 2006: Macroscopic handling of a large irrigation district by the Irrigation Management Performance Assessment Model, Proc. of the 3rd conference of Asia Pacific Association of Hydrology and Water Resources (APHW), Bangkok, Thailand. (CD-ROM)
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- Umetsu, C. 2002: The Optimal Dynamic Model of Conjunctive Water Use.“ *Japanese Journal of Rural Economics*, 4,1-10.
- Umetsu, C., T. Lekprichakul, and U. Chakravorty 2003: Efficiency and Technical Change in the Philippine Rice Sector: A Malmquist Total Factor Productivity Analysis, *American Journal of Agricultural Economics*, 85 (4),943-963.
- Umetsu, C., T. Lekprichakul, and U. Chakravorty 2006: Efficiency and Technical Change in the Philippine Rice Sector during the Post Green Revolution Era, *Studies in Regional Science*, 36 (1) 161-178.
- \* Umetsu, C., K. Palanisami, Z. Coşkun, S. Donma, T. Nagano, Y. Fujihara, and K. Tanaka 2007: Water Scarcity and Alternative Cropping Patterns in Lower Seyhan Irrigation Project: A Simulation Analysis. *Journal of Rural Economics: Special Issue 2007*. (submitted)
- \* Umetsu, C., S. Donma, T. Nagano, and Z. Coşkun 2006: The Efficiency of WUA Management in the Lower Seyhan Irrigation Project, *Journal of Rural Economics, Special Issue 2005*, 440-444.
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### **【Socio-Economic】**

- \* Atsuyuki, A. The Conservation of Government Pasture Land and the Economic Efficiency of Pasture Law in Turkey.
- Bachev, H. and M. Kagatsume 2005: Governing of Land Supply in Bulgarian Farms, *The Natural Resource*

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- Bachev, H., and M. Kagatsume 2006: Assessment of Farm Support Policies and Impacts of CAP Implementation on Farm Structures and sustainability in Bulgaria, *The Natural Resource Economics Review*, 11, 173-193.
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- Chianu, J. N., H. Tsujii, and J. Mbanasor 2007: Determinants of Decision to Adopt Improved Maize Variety by Smallholder Farmers in the Savannas of Northern Nigeria., Accepted for publication in *Journal of Food, Agriculture & Environment*, 5, 1.
- Chianu, J. N., H. Tsujii, and V. M. Manyong 2007: Crop-livestock Interaction in the Savannas of Northern Nigeria: Nature and Determinants of Farmer Decision to Use Manure for Soil Fertility Maintenance., Accepted for publication in *Journal of Food, Agriculture & Environment*, 5, 1, February.
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- Kagatsume, M. 2007: Biofuel Production in Australia and Its Implications ---Towards Resource Recycled Farming through Renewable Petro-Substitute Fuels---. *The Natural Resource Economics Review*, 12, (forthcoming)

## **【Turkey】**

- Aydin, M., S. L. Yang, N. Kurt, and T. Yano 2005: Test of a simple model for estimating evaporation from bare soils in different environments, *Ecological Modelling* 182,91-105.
- Aydin, M., T. Yano, F. Evrendilek, and V. Uygur 2007: Implications of climate change for evaporation from bare soils in a Mediterranean environment. (submitted)
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- Evrendilek, F. 2004: An inventory-based carbon budget for forest and woodland ecosystems of Turkey, *Journal of Environmental Monitoring* 6 (1), 24-30.
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- Evrendilek, F., S. Berberoglu, S. Taskinsu-Meydan, and E. Yilmaz 2006: Quantifying carbon budgets of conifer Mediterranean forest ecosystems, Turkey, *Environmental Monitoring & Assessment* 119, 527-543.

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- Ertekin, C. and F. Evrendilek 2007: Spatio-temporal modeling of global solar radiation dynamics as a function of sunshine duration for Turkey. (submitted)
- Evrendilek, F. and S. Berberoglu 2007: Quantifying spatial patterns of bioclimatic zones and controls in Turkey, *Theo. Appl. Climatology* .(in press)
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- Kılıç, S., F. Evrendilek, S. Berberoğlu, and A. C. Demirkesen 2006: Environmental monitoring of land-use and land-cover changes in a Mediterranean region of Turkey, *Environ. Monit. Assess.*, 114, 157-168.
- Kilic, S., F. Evrendilek, S. Senol, and I. Celik 2005: Developing a suitability index for land uses and agricultural land covers: a case study in Turkey, *Environ. Monit. Assess.*, 102, 323-335.
- Odemis, B. and F. Evrendilek 2007: Multivariate analysis of watershed health and sustainability in Turkey, *International Journal of Sustainable Development and World Ecology* .(in press)
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- Sermenli, T., F. Evrendilek, K. Mavi 2007: Effects of strip intercropping and organic farming systems on quantity and quality of maize yield in a Mediterranean region of Turkey, *J. Sustainable Agric.* (in press)

## **【Israel】**

- Alpert, P., T. Ben-Gai, A. Baharad, Y. Benjamini, D. Yekutieli, M. Colacino, L. Diodato, C. Ramis, V. Homar, R. Romero, S. Michaelides, and A. Manes 2002: The paradoxical increase of Mediterranean extreme daily rainfall in spite of decrease in total values, *Geophysical Research Letters*, 29 (11), 31,1-4.
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- Krichak, S., and P. Alpert 2005: Decadal trends in the East-Atlantic West Russia pattern and the Mediterranean precipitation, *Intern. J. of Climatol.*, 25, 183-192.

## **Paper not reviewed**

### **【Climate】**

- Ashrit, R., A. Kitoh, and S. Yukimoto 2005: Transient response of ENSO-monsoon teleconnection in MRI-CGCM2.2 climate change simulations. *J. Meteor. Soc. Japan*, 83, 273-291.
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