

## 研究成果公表状況

### A) 学術雑誌・学会誌(査読付き論文、英語)

- Ailikan, B. and Yasunari, T., 2001: ENSO and Asian Summer Monsoon: Persistence and Transivity in the Seasonal March, *J. Meteo. Soc. Jpn.*, 79(1), 145-159
- Aoki, M., Chimura, T., Ishii, K., Kaihotsu, I., Kurauchi, T., Musiake, K., Nakaegawa, T., Ohte, N., Panya, P., Semmer, S., Sugita, M., Tanaka, K., Tsukamoto, O. and Yasunari, T., 1998: Evaluation of surface fluxes over a paddy field in tropical environment: Some findings from preliminary observation of GAME, *J. Jpn. Soc. Hydro. Water Res.*, 11(1), 39-60
- Asanuma, J., Dias, N.L., Kustas, W.P. and Brutsaert, W., 2000: Observations of Neutral Profiles of Wind Speed and Specific Humidity Above a Gently Rolling Landsurface, *J. Meteo. Soc. Jpn.*, 78(6), 719-730
- Chen, W., Kuze, H., Uchiyama, A., Suzuki, H. and Takeuchi, N., 2001: One-year Observations of the Urban Mixed Layer Characteristics at Tsukuba using a Micro-Pulse-Lidar, *Atmos. Env.*, 35(25), 4,273-4,280
- Dairaku, K., Kuraji, K., Suzuki, M., Tangtham, N., Jirasuktaveekul, W. and Punyatrong, K., 2000: The Effect of Rainfall Duration and Intensity on Orographic Rainfall Enhancement in a Mountainous Area: A Case Study in the Mae Chaem Watershed:Thailand, *J. Jpn. Soc. Hydro. Water Res.*, 13, 57-68
- Ding, Y. and Sun, Y., 2001: A study on anomalous activities of East Asian summer monsoon during GAME/HUBEX field observation in 1999, *J. Meteo. Soc. Jpn.*, 79(6), 1,119-1,137
- Ding, Y., Zhang, Y., Qiang, M. and Guoquan, H., 2001: Analysis of the large-scale circulation features and synoptic systems in East Asia During the intensive observation period of GAMA/HUBEX, *J. Meteo. Soc. Jpn.*, 79(1B), 277-300
- Ding, Y. and Liu, Y., 2001: Onset and the evolution of the Summer Monsoon over the South China Sea during SCSMEX Field Experiment in 1998, *J. Meteo. Soc. Jpn.*, 79(1B), 255-276

- Emori, S., Nozawa, T., Abe-Ouchi, A., Numaguti, A., Kimoto, M. and Nakajima, T., 1999: Coupled ocean-atmosphere model experiments of future climate change with an explicit representation of sulfate aerosol scattering, *J. Meteo. Soc. Jpn.*, 77(6), 1,299-1,307
- Emori, S., Nozawa, T., Numaguti, A. and Uno, I., 2001: Importance of cumulus parameterization for precipitation simulation over East Asia in June, *J. Meteo. Soc. Jpn.*, 79(4), 939-947
- Fujii, H. and Koike, T., 2001: Development of a TRMM/TMI Algorithm for Precipitation in the Tibetan Plateau by Considering Effects of Land Surface Emissivity, *J. Meteo. Soc. Jpn.*, 79(1B), 475-483
- Fujii, T., Fukuchi, T., Goto, N., Nemoto, K. and Takeuchi, N., 2001: Dual differential absorption lidar for the measurement of atmospheric SO<sub>2</sub> of the order of parts in 10-9, *Appl. Opt.*, 40(6), 949-956
- Fujinami, H. and Yasunari, T., 2001: The Seasonal and Intraseasonal Variability of Diurnal Cloud Activity over the Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 79(6), 1,207-1,227
- Fukuchi, T., Fujii, T., Goto, N., Nemoto, K. and Takeuchi, N., 2001: Evaluation of differential absorption lidar (DIAL) measurement error by simultaneous DIAL and null profiling, *Opt. Eng.*, 40(3), 392-397
- Fukutomi, Y. and Yasunari, T., 1999: 10-25 day Intraseasonal Variations of Convection and Circulation over East Asia and Western North Pacific during Early Summer, *J. Meteo. Soc. Jpn.*, 77(3), 753-769
- Fukutomi, Y. and Yasunari, T., 2002: Tropical-extratropical interaction associated with the 10-25 day oscillation over the Western Pacific during the Northern summer, *J. Meteo. Soc. Jpn.*, 80(2), 311-331
- Fukutomi, Y., Igarashi, H., Masuda, K. and Yasunari, T., 2003: Interannual variability of summer water balance components in three major river basins of Northern Eurasia, *J. Hydrometeo.*, (in press)
- Gao, Z., Wang, J., Ma, Y., Kim, J., Choi, T., Lee, H., Asanuma, J. and Su, Z., 2000: Calculation of Near-Surface Layer Turbulent Transport and Analysis of Surface Thermal Equilibrium Features in Naquu of Tibet, *Phys. Chem. Earth (B)*, 25(2), 135-139

- Gao, Z., Wang, J., Ma, Y., Kim, J., Choi, T., Lee, H., Asanuma, J. and Su, Z., 2000: Study of Roughness Lengths and Drag Coefficients over Nansha Sea Region Gobi Desert Oasis and Tibetan Plateau, *Phys. Chem. Earth (B)*, 25(2), 141-145
- Georgiadi, A.G., Zolotokrylin, A.N., Malyshov, V.B., Onichshenko, V.G., Ozerov, N.S. and Vinogradova, V.V., 2001: Hydroclimatic studies of characteristics of permafrost landscapes of subarctic tundra of Eastern Siberia, *Izvestia, ser. geogr.(in Russian)*, 4, 99-106
- Hamada, S., Ohta, T., Hiyama, T., Kuwada, T., Takahashi, A. and Maximov, T.C., 2003: Hydrometeorological behaviors of pine and larch forests in eastern Siberia, *Hydro. Proc.*, (in press)
- Hayasaka, T., Meguro, Y., Sasano, Y. and Takamura, T., 1999: Optical properties of aerosols derived from simultaneous measurements with lidar, sunphotometer and aureolemeter, *Appl. Opt.-LP*, 38, 1,630-1,635
- Higurashi, A., Nakajima, T., Holben, B.N., Smirnov, A., Frouin, R. and Chatenet, B., 2000: A Study of Global Aerosol Optical Climatology with Two Channel AVHRR Remote Sensing, *J. Clim.*, 13(12), 2,011-2,027
- Hirose, N., Koike, T. and Ishidaira, H., 2002: Study on Spatially Averaged Evaporation under Soil Moisture Heterogeneity Affected by Permafrost Micro-topography, *J. Meteo. Soc. Jpn.*, 80(2), 191-203
- Hirota, T., 2001: Estimation of Seasonal and Annual Evaporation using Agrometeorological Data from the Thai Meteorological Department by the Heat Budget Models, *J. Meteo. Soc. Jpn.*, 79(1B), 365-371
- Hiyama, T., Sugita, M., Bergstrom, H. and Molder, M., 1999: Wind speed measurements in upper and lower boundary layer to determine regional momentum fluxes, *Agri. For. Meteo.*, 98-99, 145-158
- Hiyama, T., Strunin, M.A., Suzuki, R., Asanuma, J., Mezrin, M.Y., Bezrukova, N.A. and Ohata, T., 2003: Aircraft observations of the atmospheric boundary layer over a heterogeneous surface in Eastern Siberia, *Hydro. Proc.*, (in press)
- Jha, R., Herath, S. and Musiake, K., 1997: Development of IIS Distributed Hydrological Model and its Application in Chao Phraya River Basin Thailand., *Ann. J. Hydraul. Eng. JSCE*, 41, 227-232

- Jha, R., Herath, S. and Musiake, K., 1998: Application of IIS Distributed Hydrological Model in Nakon Sawan Catchment Thailand., Ann. J. Hydraul. Eng. JSCE, 42, 145-150
- Jha, R., Herath, S. and Musiake, K., 2000: River network solution for a distributed hydrological model and applications, Hydro. Proc., 14(3), 575-592
- Kanae, S., Oki, T. and Musiake, K., 2001: Impact of Deforestation on Regional Precipitation over the Indochina Peninsula, J. Hydrometeo., 2, 51-70
- Kang, I.S., Jin, K., Lau, K.M., Shukla, J., Krishnamurthy, V., Schubert, S.D., Waisler, D.E., Stern, W.F., Kitoh, A., Meehl, G.A., Kanamitsu, M., Galin, V.Y., Sumi, A., Wu, G., Liu, Y. and Kim, J.-K., 2002: Intercomparison of the Atmospheric GCM simulated anomalies associated with the 1997/98 El Nino, J. Clim., 15(19), 2,791-2,805
- Kawamoto, K., Nakajima, T. and Nakajima, T.Y., 2001: A global determination of cloud microphysics with AVHRR remote sensing, J. Clim., 14(9), 2,054-2,068
- Kim, W., Arai, T., Kanae, S., Oki, T. and Musiake, K., 2001: Application of the Simple Biosphere Model (SiB2) to a Paddy Field for a Period of Growing Season in GAME-Tropics, J. Meteo. Soc. Jpn., 79(1B), 387-400
- Kim, W., Agata, Y., Kanae, S., Oki, T. and Musiake, K., 2001: Hydrological simulation by SiB2-Paddy in ChaoPhraya river basin: Thailand, IAHS Publ., 270, 19-26
- King, M.D., Kaufman, Y.J., Tanre, D. and Nakajima, T., 1999: Remote sensing of tropospheric aerosols from space: past present and future, Bull. Amer. Meteo. Soc., 80(11), 2,229-2,260
- Kinjo, H., Kuze, H., Takamura, T., Yabuki, M. and Takeuchi, N., 2001: Determination of Aerosol Extinction-to-backscattering Ratio from Multiwavelength Lidar Observation, Jpn. J. Appl. Phys., 40(1), 434-440
- Kitoh, A., Yukimoto, S. and Noda, A., 1999: ENSO-Monsoon Relationship in the MRI Coupled GCM, J. Meteo. Soc. Jpn., 77(6), 1,221-1,245
- Koike, T., Fujii, H., Ohta, T. and Togashi, E., 2001: Development and validation of TMI algorithms for soil moisture and snow, IAHS Publ.,

267, 390-393

- Komatsu, H., Yoshida, N., Takizawa, H., Kosaka, I., Tantasirin, C. and Suzuki, M., 2003: Seasonal Trend in the Occurrence of Nocturnal Drainage Flow on a Forested Slope Under a Tropical Monsoon Climate, *Boundary-Layer Meteo.*, 106, 573-592
- Kuji, M. and Nakajima, T., 2001: Retrieval of cloud geometrical parameters using remote sensing data, *SPIE*, 4150, 225-234
- Kumagai, T., Kuraji, K., Noguchi, H., Tanaka, Y., Tanaka, K. and Suzuki, M., 2001: Vertical profiles of environmental factors within tropical Lambir Hills National Park:Sarawak:Malaysia, *J. For. Res.*, 6(4), 257-264
- Kuraji, K., Kowit, P. and Suzuki, M., 2001: Altitudinal Increase in Rainfall in the Mae Chaem watershed:Thailand, *J. Meteo. Soc. Jpn.*, 79(1B), 353-363
- Kurita, N., Numaguchi, A., Sugimoto, A., Ichiyangagi, K. and Yoshida, N., 2003: The isotopic variation in summer precipitation in eastern Siberia, *J. Geophys. Res.*, (in press)
- Kurosaki, Y. and Kimura, F., 2002: Relationship between topography and daytime cloud activity around Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 80(6), 1,339-1,355
- Kusaka, H., Kondo, H., Kikegawa, Y. and Kimura, F., 2001: A Simple Single-Layer Urban Canopy Model for Atmospheric Models: Comparison with Multi-Layer and Slab Models, *Boundary-Layer Meteo.*, 101, 329-358
- Kuwagata, T., Numaguti, A. and Endo, N., 2001: Diurnal Variation of Water Vapor over the Central Tibetan Plateau during Summer, *J. Meteo. Soc. Jpn.*, 79(1B), 401-418
- Lai, M., Nozawa, T., Emori, S., Harasawa, H., Takahashi, K., Kimoto, M., Abe-Ouchi, A., Nakajima, T., Takemura, T. and Numaguti, A., 2001: Future climate change: Implications for Indian summer monsson and its variability, *Current Sci.*, 81, 1,196-1,207
- Lee, S.-H. and Kimura, F., 2001: Comparitive studies in the local circulation induced bu land-use and by topography, *Boundary-Layer Meteo.*, 101, 157-182
- Li, G., Duan, T., Haginoya, S. and Chen, L., 2001: Estimation of the

- bulk transfer coefficients and surface fluxes over the Tibetan Plateau using AWS data, J. Meteo. Soc. Jpn., 79(2), 625-635
- Liu, Q.-J. and Takeuchi, N., 2001: Vegetation inventory of a temperate biosphere reserve in China by image fusion of Landsat and spot HRV, J. For. Res., 6, 139-146
- Liu, S., Mo, X., Li, H., Peng, G. and Robock, A., 2001: Spatial Variation of Soil Moisture in China: Geostatistical Characterization, J. Meteo. Soc. Jpn., 79(1B), 555-574
- Ma, X., Hiyama, T., Fukushima, Y. and Hashimoto, T., 1998: A numerical model of the heat transfer for permafrost regions, J. Jpn. Soc. Hydro. Water Res., 11(4), 346-359
- Ma, X., Fukushima, Y., Hashimoto, T., Hiyama, T. and Nakashima, T., 1999: Application of a simple SVAT model in a mountain catchment under temperate humid climate, J. Jpn. Soc. Hydro. Water Res., 12, 285-294
- Ma, X., Fukushima, Y., Hiyama, T., Hashimoto, T. and Ohata, T., 2000: A macro-scale hydrological analysis of the Lena River basin, Hydro. Proc., 14(3), 639-651
- Ma, Y., Tsukamoto, O., Tamagawa, I., Wang, J., Ishikawa, H., Hu, Z. and Gao, H., 2000: The study of turbulence structure and transfer characteristics over the grass land surface of Tibetan Plateau, Chinese J. Atmos. Sci., 24, 456-464
- Ma, Y., Tsukamoto, O., Ishikawa, H., Su, Z., Menenti, M., Wang, J. and Wen, J., 2002: Determination of regional land surface heat flux densities over heterogeneous landscape of HEIFE integrating satellite remote sensing with field observations, J. Meteo. Soc. Jpn., 80(3), 485-501
- Ma, Y., Tsukamoto, O., Wang, J., Ishikawa, H. and Tamagawa, I., 2002: Analysis of aerodynamic and thermodynamic parameters on the grassy marshal surface of Tibetan Plateau, Progress in Natural Sci., 12, 36-40
- Matsumoto, J., 1997: Seasonal Transition of Summer Rainy Season over Indochina and Adjacent Monsoon Region, Adv. Atmos. Sci., 14, 231-245
- Matsumoto, J. and Murakami, T., 2000: Annual Changes of Tropical

- Convective Activities as Revealed from Equatorially Symmetric OLR Data, J. Meteo. Soc. Jpn., 78(5), 543-561
- Minomura, M., Kuze, H. and Takeuchi, N., 2001: Atmospheric correction of visible and near-infrared satellite data using radiance components: an improved treatment of adjacency effect, J. Rem. Sen. Soc. Jpn, 21(3), 260-271
- Minomura, M., Kuze, H. and Takeuchi, N., 2001: Adjacency effect in the atmospheric correction of satellite remote sensing data: evaluation of the influence of aerosol extinction profiles, Opt. Rev., 8(2), 133-141
- Miyazaki, S., Yasunari, T. and Adyasuren, T., 1999: Abrupt Seasonal Changes of Surface Climate Observed in Northern Mongolia by an Automatic Weather Station, J. Meteo. Soc. Jpn., 77(2), 583-593
- Murakami, T., Matsumoto, J. and Yatagai, A., 1999: Similarities as well as Differences between Summer Monsoons over Southeast Asia and the Western North Pacific, J. Meteo. Soc. Jpn., 77(4), 887-906
- Nagai, H., Kobayashi, T., Ishikawa, H. and Teshima, J., 2002: An analysis of soil moisture and evaporation at a grassland station of GAME/Tibet Amdo using the BBH model, J. Jpn. Soc. Hydro. Water Res., 55(1), 3-12
- Nakaegawa, T., Oki, T. and Musiake, K., 2000: The effects of heterogeneity within an area on a really averaged evaporation, Hydro. Proc., 14(3), 465-479
- Nakajima, T., Higurashi, A., Takeuchi, N. and Harman, J.R., 1999: Satellite and ground-based study of optical properties of 1997 Indonesian forest fire aerosols, Geophys. Res. Lett., 26(16), 2,421-2,424
- Nakajima, T., Tsukamoto, M., Tsushima, Y., Numaguti, A. and Kimura, T., 2000: Modeling of the radiative process in an atmospheric general circulation model, Appl. Opt.-LP, 39, 4,869-4,878
- Nakajima, T., Higurashi, A., Kawamoto, K. and Penner, J.E., 2001: A possible correlation between satellite-derived cloud and aerosol microphysical parameters, Geophys. Res. Lett., 28, 1,171-1,174
- Narukawa, M., Kawamura, K., Takeuchi, N. and Nakajima, T., 1999: Distribution of dicarboxylic acids and carbon isotopic

- compositions in aerosols from 1997 Indonesian forest fires, Geophys. Res. Lett., 26, 3,101-3,104
- Narukawa, M., Kawamura, K., Takeuchi, N. and Nakajima, T., 1999: Molecular composition of dicarboxylic acids in size-segregated aerosols collected during forest fire in Southeast Asia, Res. Org. Geochem., 14, 11-18
- Ogasawara, N., Kitoh, A., Yasunari, T. and Noda, A., 1999: Tropospheric Biennial Oscillation of ENSO-Monsoon System in the MRI Coupled GCM, J. Meteo. Soc. Jpn., 77(6), 1,247-1,270
- Ohsawa, T., Ueda, H., Hayashi, T., Watanabe, A. and Matsumoto, J., 2001: Diurnal Variations of Convective Activity and Rainfall in Tropical Asia, J. Meteo. Soc. Jpn., 79(1B), 333-352
- Ohta, T., Suzuki, K., Kodama, Y., Kubota, J., Kominami, Y. and Nakai, Y., 1999: Characteristics of the heat balance above the canopies of evergreen and deciduous forests during the snowy season, Hydro. Proc., 13(14-15), 2,382-2,394
- Ohta, T., Hiyama, T., Tanaka, H., Kuwada, T., Maximov, T.C., Ohata, T. and Fukushima, Y., 2001: Seasonal variation in the energy and water exchanges above and below a larch forest in eastern Siberia, Hydro. Proc., 15(8), 1,459-1,476
- Okada, I., Takayabu, Y.N., Takemura, H., Takamura, T., Kawamoto, K., Kaneta, S., Inoue, T., Nakajima, T. and Kikuchi, T., 2003: The validation of insolation from GMS-5 by ground measurement at GAME observation sites, J. Meteo. Soc. Jpn., (in press)
- Oki, T. and Sud, Y.C., 1998: Design of Total Runoff Integrating Pathways (TRIP) A global river channel network, Earth Int., 2,
- Oki, T., Nishimura, T. and Dirmeyer, P., 1999: Assessment of Annual Runoff from Land Surface Models Using Total Runoff Integrating Pathways (TRIP), J. Meteo. Soc. Jpn., 77(1), 235-255
- Oki, T., Agata, Y., Kanae, S., Saruhashi, T., Yang, D. and Musiake, K., 2001: Global Assessment of Current Water Resources using Total Runoff Integrating Pathways, Hydro. Sci. J., 46(6), 983-996
- Ru, J., Takeuchi, N., Uezono, T., Kaneta, S., Minomura, M., Kuze, H., Takamura, T., Higurashi, A. and Nakajima, T., 2000: Optical properties of biomass burning smoke in South-east Asia studied by

- NOAA/AVHRR and ground-base monitoring, *Adv. Space Res.*, 25(5), 1,029-1,032
- Sato, N., Ishii, Y., Kodama, Y., Nomura, M., Ishikawa, N. and Kobayashi, D., 2001: Characteristics of summer water balance in eastern Siberian tundra watershed, *Polar Meteo. Glacio.*, 15, 91-106
- Satomura, T., 2000: Diurnal Variation of Precipitation over the Indo-China Peninsula: Two dimensional numerical simulation, *J. Meteo. Soc. Jpn.*, 78(4), 461-475
- Shen, X., Kimoto, M. and Sumi, A., 1998: Role of Land Surface Processes Associated with Interannual Variability of Broad-scale Asian Summer Monsoon as simulated by the CCSR/NIES AGCM, *J. Meteo. Soc. Jpn.*, 76(2), 217-236
- Shen, X. and Kimoto, M., 1999: Influence of El-Nino on the 1997 Indian Summer Monsoon, *J. Meteo. Soc. Jpn.*, 77(5), 1,023-1,037
- Shen, X.-S., Kimoto, M., Sumi, A., Numaguti, A. and Matsumoto, J., 2001: Simulation of the 1998 East Asian summer monsoon by the CCSR/NIES AGCM, *J. Meteo. Soc. Jpn.*, 79(3), 741-757
- Shimizu, S., Ueno, K., Fujii, H., Yamada, H., Shirooka, R. and Liu, L., 2001: Mesoscale Characteristics and Structures of Stratiform Precipitation on the Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 79(1B), 435-461
- Shinoda, T. and Uyeda, H., 2002: Effective factors in the development of deep convective clouds over the wet region of eastern China during the summer monsoon season, *J. Meteo. Soc. Jpn.*, 80(6), 1,395-1,414
- Sugimoto, A., Yanagisawa, N., Naito, D., Fujita, N. and Maximov, T.C., 2002: Importance of permafrost as a source of water for plants in East Siberian Taiga, *Eco. Res.*, 17, 493-503
- Sugimoto, A., Naito, D., Yanagisawa, N., Ichiyangagi, K., Kurita, N., Kubota, J., Kotake, T., Ohata, T., Maximov, T.C. and Fedorov, A.N., 2003: Characteristics of soil moisture in permafrost observed in East Siberian Taiga with stable isotopes of water, *Hydro. Proc.*, (in press)
- Sugita, M., Endo, N. and Hiyama, T., 1999: Regional surface momentum flux derived from atmospheric boundary layer bulk similarity

- approach, J. Geophys. Res., 104(D14), 16,965-16,972
- Sugita, M., Usui, J., Tamagawa, I. and Kaihotsu, I., 2001: Complementary relationship with a convective boundary layer model to estimate regional evaporation, Water Resour. Res., 37(2), 353-365
- Sugita, T., Yokota, T., Nakajima, T., Nakajima, H., Waragai, K., Suzuki, M., Matsuzaki, A., Itou, Y., Saeki, H. and Sasano, Y., 2000: Temperature and pressure retrievals from O<sub>2</sub> A-band absorption measurements made by ILAS: Retrieval algorithm and error analyses, SPIE, 4150, 94-105
- Sugiura, K., Yang, D. and Ohata, T., 2003: Systematic error aspects of gauge-measured solid precipitation in the Arctic, Barrow, Alaska, Geophys. Res. Lett., (in press)
- Suzuki, K., Ohta, T., Kojima, A. and Hashimoto, T., 1999: Variations in snowmelt energy and energy balance characteristics with larch forest density on Mt. Iwate:Japan: Observations and energy balance analyses, Hydro. Proc., 13(17), 2,675-2,688
- Suzuki, K., Ohta, T., Miya, H. and Yokota, S., 1999: Seasonal variation of heat balance components over a Japanese red pine forest in snowy northern Japan, Hydro. Proc., 13(14-15), 2,409-2,421
- Suzuki, K. and Ohta, T., 2003: Effect of larch forest density on snow surface energy balance, J. Hydrometeo., (in press)
- Suzuki, R., Tanaka, S. and Yasunari, T., 2000: Relationships between meridional profiles of satellite-derived vegetation index (NDVI) and climate over Siberia, Int. J. Clim., 20, 955-967
- Suzuki, R., Nomaki, T. and Yasunari, T., 2001: Spatial Distribution and Its Seasonality of Satellite-Derived Vegetation Index (NDVI) and Climate in Siberia, Int. J. Clim., 21, 1,321-1,335
- Suzuki, R., Nomaki, T. and Yasunari, T., 2003: East-west contrast of phenology and climate in northern Asia as revealed by remotely-sensed vegetation index (NDVI), Int. J. Biology, (in press)
- Tadono, T., Koike, T., Shi, J., Ding, Y., Chen, X., Wang, S. and Yang, M., 2000: Development of an algorithm for soil moisture mapping based on single-parameter SAR images in permafrost regions including the effect of surface roughness, J. Hydrosci. Hydraul.

Eng., 18(1), 29-38

- Takagi, T., Kimura, F. and Kono, S., 2000: Diurnal Variation of GPS Precipitable Water at Lhasa in Premonsoon and Monsoon Periods, J. Meteo. Soc. Jpn., 78(2), 175-180
- Takata, K. and Kimoto, M., 2000: A numerical study on the impacts of soil freezing on the continental-scale seasonal cycle, J. Meteo. Soc. Jpn., 78(3), 199-221
- Takata, K., 2002: Sensitivity of land surface processes to frozen soil permeability and surface water storage, Hydro. Proc., 16(11), 2,155-2,172
- Takata, K., Emori, S. and Watanabe, T., 2003: Development of the minimal advanced treatments of surface interaction and runoff, Global Planetary Change, (in press)
- Takayabu, I., Takata, K., Yamazaki, T., Ueno, K., Yabuki, H. and Haginoya, S., 2001: Comparison of the Four Land Surface Models Driven by a Common Forcing Data Prepared from GAME/Tibet POP '97 Products--Snow Accumulation and Soil Freezing Processes--, J. Meteo. Soc. Jpn., 79(1B), 535-554
- Takemura, T., Okamoto, H., Maruyama, Y., Numaguti, A., Higurashi, A. and Nakajima, T., 2000: Global three-dimensional simulation of aerosol optical thickness distribution of various origins, J. Geophys. Res., 105, 17,853-17,873
- Takemura, T., Nakajima, T., Dubovik, O., Holben, B.N. and Kinne, S., 2002: Single scattering albedo and radiative forcing of various aerosol species with a global three-dimensional model, J. Clim., 15(4), 333-352
- Takiguchi, H., Kato, T., Kobayashi, H. and Nakaegawa, T., 2000: GPS observations in Thailand for hydrological applications, Earth, Planets and Space, 52, 913-919
- Tanaka, K., Ishikawa, H., Hayashi, T., Tamagawa, I. and Ma, Y., 2001: Surface Energy Budget at Amdo on the Tibetan Plateau using GAME/Tibet IOP98 Data, J. Meteo. Soc. Jpn., 79(1B), 505-517
- Toda, M., Saigusa, N., Oikawa, T. and Kimura, F., 2000: Seasonal Changes of CO<sub>2</sub> and H<sub>2</sub>O Exchanges over a Temperate Grassland, J. Agri. Meteo., 56(3), 195-207

- Toda, M., Nishida, K., Ohte, N., Tani, M. and Musiake, K., 2002: Observation of Energy Fluxes and Evapotranspiration over Terrestrial Complex Land Covers in the Tropical Monsoon Region, *J. Meteo. Soc. Jpn.*, 80(3), 465-484
- Toda, M., Nishida, K., Ohte, N., Tani, M. and Musiake, K., 2002: Observations of Energy Fluxes and Evapotranspiration over Terrestrial Complex Land Covers in the Tropical Monsoon Environment, *J. Meteo. Soc. Jpn.*, 80(3), 465-484
- Toda, M. and Sugita, M., 2003: Single level turbulence measurements to determine roughness parameters of complex terrain, *J. Geophys. Res.*, (in press)
- Tsujimura, M., Numaguti, A., Tian, L., Hashimoto, S., Sugimoto, A. and Nakawo, M., 2001: Behavior of Subsurface Water Revealed by Stable Isotope and Tensiometric Observation in the Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 79(1B), 599-605
- Tsuyuzaki, S., Ishizaki, T. and Sato, T., 1999: Vegetation structure in gullies developed by the melting of ice wedges along Kolyma River, northern Siberia, *Eco. Res.*, 14(4), 385-391
- Tugjsuren, N. and Takamura, T., 2001: Investigation for Photosynthetically Active Radiation Regime in the Mongolian Grain Farm Region, *J. Agri. Meteo.*, 57(4), 201-207
- Ueda, H. and Yasunari, T., 1998: Role of Warming over the Tibetan Plateau in Early Onset of the Summer Monsoon over the Bay of Bengal and the South China Sea, *J. Meteo. Soc. Jpn.*, 76(1), 1-12
- Ueda, H., Kamahori, H. and Yamazaki, N., 2003: Seasonal Contrasting Features of Heat and Moisture Budgets between the Eastern and Western Tibetan Plateau during the GAME IOP, *J. Clim.*, (in press)
- Ueno, K., Kayastha, R.B., Chitrakar, M.R., Bajracharya, O.R., Pokhrel, A.P., Fujinami, H., Kadota, T., Iida, H., Manandhar, D.P., Hattori, M., Yasunari, T. and Nakawo, M., 2001: Meteorological observations during 1994-2000 at the Automatic Weather Station (GEN-AWS) in Khumbu region, Nepal Himalayas, *Bull. Glacio. Res.*, 18, 23-30
- Ueno, K., 1998: Characteristics of Plateau-Scale Precipitation in Tibet Estimated by Satellite Data during 1993 Monsoon Season, *J. Meteo. Soc. Jpn.*, 76(4), 533-548

- Ueno, K., Fujii, H., Yamada, H. and Liu, L., 2001: Weak and Frequent Monsoon Precipitation over the Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 79(1B), 419-434
- Ueno, K. and Pokhrel, A.P., 2002: Intra-seasonal air temperature variation in the Nepal Himalayas, *MAUSAM*, 53(3), 281-288
- Ueno, K., Iida, H., Yabuki, H., Seko, K., Sakai, A., Lhakupa, G.S., Kayastha, R.B., Pokhrel, A.P., Shrestha, M.L., Yasunari, T. and Nakawo, M., 1996: Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region ,Nepal Himalayas, *Bull. Glacio. Res.*, 14, 13-22
- Uyeda, H., Yamada, H., Horikomi, J., Shirooka, R., Shimizu, S., Liu, L., Ueno, K., Fujii, H. and Koike, T., 2001: Characteristics of Convective Clouds Observed by a Doppler Radar at Naqu on Tibetan Plateau during the GAME-Tibet IOP, *J. Meteo. Soc. Jpn.*, 79(1B), 463-474
- Wang, Y., Wang, B. and Oh, J., 2001: Impact of the Preceding El Ni?o on the East Asian Summer Atmosphere Circulation, *J. Meteo. Soc. Jpn.*, 79(1B), 575-588
- Watanabe, K., Mizoguchi, S., Kiyosawa, H. and Kodama, Y., 2000: Properties and horizons of active layer soils in tundra at Tiksi:Siberia, *J. Jpn. Soc. Hydro. Water Res.*, 13(1), 9-16
- Webster, P.J., Magana, V.O., Palmer, T.N., Shukla, J., Tomas, R.A., Yanai, N. and Yasunari, T., 1998: Monsoons: Processes, predictability, and the Prospects for prediction, *J. Geophys. Res.*, 103(C7), 14,451-14,510
- Widada, W., Kinjo, H., Kuze, H., Takeuchi, N. and Sasaki, M., 2001: Effect of Multiple Scattering in the Lidar Measurement of Tropospheric Aerosol Extinction Profiles, *Opt. Rev.*, 8(5), 382-387
- Widiyatmi, I., Hashiguchi, H., Fukao, S., Yamanaka, M.D., Ogino, S., Gage, K.S., Harijono, S.B., Diharto, S. and Djojodihardjo, H., 2001: Examination of 3-6 day Disturbances over Equatorial Indonesia Based on Boundary Layer Radar Observations during 1996-1999 at Bukittinggi, Serpong and Biak, *J. Meteo. Soc. Jpn.*, 79(1B), 317-331
- Xu, J. and Hagineya, S., 2001: An Estimation of Heat and Water Balances in the Tibetan Plateau, *J. Meteo. Soc. Jpn.*, 79(1B), 485-504

- Xu, J. and JohnnysC. L Chan, 2001: First Transition of the Asian Summer Monsoon in 1998 and the Effect of the Tibet-Tropical Indian Ocean Thermal Contrast, *J. Meteo. Soc. Jpn.*, 79(1B), 241-253
- Yamazaki, T., 2001: A one-dimensional land surface model adaptable to intensely cold regions and its application in Eastern Siberia, *J. Meteo. Soc. Jpn.*, 79(6), 1,107-1,118
- Yang, D., Herath, S. and Musiake, K., 2000: Comparison of different distributed hydrological models for characterization of catchment spatial variability, *Hydro. Proc.*, 14(3), 403-416
- Yang, D. and Ohata, T., 2001: A Bias-corrected Siberian regional precipitation climatology, *J. Hydrometeo.*, 2(2), 122-139
- Yang, D., Herath, S., Oki, T. and Musiake, K., 2001: Application of distributed hydrological model in Asian monsoon tropic region with a perspective of coupling with atmospheric models, *J. Meteo. Soc. Jpn.*, 79(1B), 373-385
- Yang, D., Kanae, S., Oki, T. and Musiake, K., 2001: Expanding the distributed hydrological modeling to continental scale, *IAHS Publ.*, 270, 125-134
- Yang, K. and Koike, T., 2002: Estimating surface solar radiation from upper-air humidity, *Solar Energy*, 72(2), 177-186
- Yang, K., Koike, T., Fujii, H., Tamagawa, K. and Hirose, N., 2002: Improvement of Surface Flux Parameterizations with a Turbulence-Related Length, *Quarterly J. Royal Meteo. Soc.* 128, Part B, 584, 2,073-2,088
- Yang, K., Koike, T. and Yang, D., 2003: Surface Flux Parameterization in the Tibetan Plateau, *Boundary-Layer Meteo.*, 106(2), 245-262
- Yatagai, A., 2001: Estimation of Precipitable Water and Relative Humidity over the Tibetan Plateau from GMS-5 Water Vapor Channel Data, *J. Meteo. Soc. Jpn.*, 79(1B), 589-598
- Yoshikane, T., Kimura, F. and Emori, S., 2001: Numerical Study on the Baiu Front Genesis by Heating Contrast between Land and Ocean, *J. Meteo. Soc. Jpn.*, 79(2), 671-686
- Zhang, Y., Ohata, T. and Hirashima, H., 2002: Spatial distribution of surface soil moisture and evaporation in a small watershed of Tiksi:Eastern Siberia, *J. Jpn. Soc. Hydro. Water Res.*, 15(2),

486-495

- Zhang, R., Sumi, A. and Kimoto, M., 1999: A diagnostic study of the impact of El Nino on the precipitation in China, *Adv. Atmos. Sci.*, 16, 229-241
- Zhao, B., Yao, Z., Li, W., Yuan, J., Chen, Y., Gao, H. and Zhu, Y., 2001: Rainfall Retrieval and Flooding Monitoring in China using TRMM Microwave Imager (TMI), *J. Meteo. Soc. Jpn.*, 79(1B), 301-315
- Zolotokrylin, A.N., Vinogradova, V.V., Titkova, T.B. and Ananiev, I.P., 2002: Computer archive of vegetation cover characteristics of Eastern Siberia, *Izv. RAN, ser. Geogr*(in Russian), 2, 116-121