CURRICULUM VIATE

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Education

School	Degree	Date
MIT, USA	**Ph.D, Civil & Environmental Engineering**	**2003**
National Chiao-Tung University, Taiwan	M.S., Institute of Environmental Engineering	1994
National Taiwan University, Taiwan	B.Sc. (Eng.), Civil Engineering	1992

Professional Experiences

ICHARM (International Centre for Water Hazard and Risk Management under the auspices of UNESCO), Tsukuba, Japan
Chief Researcher 2012-now
(& Adjunct Professor of National Graduate Institute for Policy Studies, Tokyo, Japan)

Institute of Industrial Science (IIS), University of Tokyo, Tokyo, Japan
Special-Appointed Associate Professor 2007-2012

Dept. of Earth System Science (ESS), University of California, Irvine, USA
Project Scientist 2005-2007

Dept. of Civil Engineering, University of Hong Kong, China
Research Assistant Professor 2002-2005

MIT Parsons Laboratory, Cambridge, MA, USA
Research and Teaching Assistant (PhD Candidate) 1996-2002

Affiliations

Member of American Geophysical Union (AGU) 1996-now

Professional Services

- Peer reviewer for Water Resources Research, J. of Hydrology, Geophysical Research Letter, Journal of Geophysical Research, Advanced Water Resources, J. of Hydrometeorology, Remote Sensing of Environment, J. of Applied Remote Sensing, and others.
- Chair of the session “Hydrological Modeling” for the 4th International Symposium on Environmental Hydraulics, Hong Kong, China, 2004
- Co-convener for the session “Monitoring, Modeling, and Predicting Groundwater Variability at Regional to Global Scales” at the AGU Fall meeting, San Francisco, 2006 and 2007.

Peer-reviewed Journal Publications

1. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **1998**: Stochastic Analysis of the Relationship between Topography and the Spatial Distribution of Soil Moisture. ***Water Resources Research,*** *34(5),* 1251-1263. (IF: 2.96, Citation times: 10)
2. **Yeh, P. J.-F.** , M. Irizzary, and E. A. B. Eltahir, **1998**: Hydroclimatology of Illinois: A Comparison of the Estimates of Evaporation based on Atmospheric Water Balance and Soil Water Balance. ***Journal of Geophysical Research*** *103(D16),* 19,823-19,837.(IF: 3.02, Citation times: 48)
3. Eltahir, E.A.B, and **P. J. –F. Yeh, 1999**: On the Asymmetric Response of Aquifer Water Level to Droughts and Floods in Illinois. ***Water Resources Research****, 35(4),* 1199-1217. (IF: 2.96, Citation times: 50)
4. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **2005**: Representation of Water Table Dynamics in a Land Surface Scheme: 1. Model Development. ***Journal of Climate***, Vol. 18, No. 12, pages 1861-1880. (IF: 4.10, Citation times: 58)
5. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **2005**: Representation of Water Table Dynamics in a Land Surface Scheme: 2. Subgrid Heterogeneity. ***Journal of Climate***, Vol. 18, No. 12, pages 1881-1901. (IF: 4.10, Citation times: 16)
6. Swenson, S.C., **P. J. –F. Yeh**, J. Wahr, J. S. Famiglietti, **2006**: A Comparison of Terrestrial Water Storage Variations from GRACE with In Situ Measurements from Illinois. ***Geophys. Res. Lett.***, 33, L16401, doi:10.1029/2006GL026962. (IF: 3.79, Citation times: 43)
7. **Yeh, P. J. –F.,** J. Famiglietti, S. C. Swenson, M. Rodell, **2006**: Remote Sensing of Groundwater Storage Changes Using the Gravity Recovery and Climate Experiment (GRACE). ***Water Resources Research****,* 42, W12203, doi:10.1029/2006WR005374**.** (IF: 2.96, Citation times: 54)
8. Gulden, L. E., E. Rosero, Z. L. Yang, M. Rodell, C. S. Jackson, G. Y. Niu, **P. J. -F. Yeh**, and J. Famiglietti, **2007**: Improving land-surface model hydrology: Is an explicit aquifer model better than a deeper soil profile?. ***Geophys. Res. Lett.***, 34, L09402, doi:10.1029/2007GL029804. (IF: 3.79, Citation times: 27)
9. **Yeh, P. J. –F**., J. Famiglietti, **2008**: Regional Terrestrial Water Storage Change and Evapotranspiration from Terrestrial and Atmospheric Water Balance Computations. ***Journal of Geophysical Research – Atmospheres,*** 113, doi:10.1029/2007JD009045. (IF: 3.02, Citation times: 11)
10. Lo, M-H., **P. J.-F**. **Yeh**, J. S. Famiglietti, **2008**: Constraining water table depth simulations in a land surface model using estimated baseflow. ***Advances in Water Resources***,doi:10.1016/j.advwatres.2008.06.007. (IF: 2.45, Citation times: 10)
11. Yang, D., W. Shao, **P. J.-F. Yeh**, H. Yang, S. Kanae, T. Oki, **2009**: Impact of vegetation coverage on regional water balance in the non-humid regions of China. ***Water Resources Research,*** 45, W00A14, doi:10.1029/2008WR006948 (IF: 2.96, Citation times: 16)
12. Han. S. C., H, Kim, I. Y. Yeo, **P. J.-F. Yeh**, T. Oki, K. W. Seo, D. Alsdorf, **2009**: Dynamics of surface water storage in the Amazon inferred from measurements of satellite distance change. ***Geophys. Res. Lett***. 36, L09403,doi:10.1029/2009GL037910. (IF: 3.79, Citation times: 9)
13. Kim. H., **P. J.-F. Yeh**, T. Oki, S. Kanae, **2009**: The role of rivers in the seasonal variations of terrestrial water storage over global basins. ***Geophys. Res. Lett***. 36, L17402, doi:10.1029/2009GL039006. (IF: 3.79, Citation times: 14)
14. **Yeh, P. J.-F**., J. Famiglietti, **2009**: Regional groundwater evapotranspiration in Illinois. ***J. of Hydrometeorology***, 10, doi:10.1175/2008JHM1018.1. (IF: 3.05, Citation times: 12)
15. Wang, L., T. Koike, K. Yang, **P. J.-F. Yeh**, **2009**: Assessment of a distributed biosphere hydrological model against streamflow and MODIS land surface temperature in the upper Tone River Basin. ***J. of Hydrology***, doi:10.1016/j.jhydrol.2009.08.005. (IF: 2.66, Citation times: 13)
16. Tang Q., H. Gao, **P. Yeh**, T. Oki, F. Su, and D. P. Lettenmaier, **2010**: Dynamics of terrestrial water storage change from satellite and surface observations and modeling. ***J. of Hydrometeorology***, 10, doi:10.1175/2009JHM1152.1. (IF: 3.05, Citation times: 10)
17. Lo, M-H., J. S. Famiglietti, **P. J.-F. Yeh**, T. H. Syed, **2010**: Improving parameter estimation and water table depth simulation in a land surface model using GRACE water storage and estimated baseflow data. ***Water Resources Research,*** doi:10.1029/ 2009WR007855. (IF: 2.96, Citation times: 13)

18. Cho, J., S., T. Oki, **P. J.-F. Yeh**, S. Kanae, and W. Kim, **2010**: The effect of estimated PAR uncertainties on physiological processes of biosphere model. ***Ecological Modeling***, doi:10.1016/j.ecolmodel.2010.03.009. (IF: 2.33)

19. Cho, J., **P. J.-F. Yeh**, Y-W. Lee, H. Kim, T. Oki, W. Kim, and K. Otsuki, **2010** : A study on the relationship between Atlantic sea surface temperature and Amazonia greenness. ***Ecological Informatics,*** doi:10.1016/j.ecoinf.2010.07.008. (IF: 1.43)

20. Kaneko, D**.**, P. Yang, **P. J.-F. Yeh**, T. Kumakura, **2010:** Developing a photosynthetic sterility model to estimate CO2 fixation through the crop yield in Asia based on MODIS data. ***Ecological Informatics,*** doi:10.1016/j.ecoinf.2010.07.008. (IF: 1.43)

21. Okazawa, Y., **P. J.-F. Yeh**, S. Kanae., and T. Oki, **2011**: Development of a global flood risk index based on natural and socio-economical factors. ***Hydrological Sciences Journal,*** doi:10.1080/02626667.2011.583249. (IF:1.54)

22. Haddeland, I. D. Clark, W. Franssen, F. Ludwig, F. Voß, N. W. Arnell, N. Bertrand, M. Best, S. Folwell, D. Gerten, S. Gomes, S. N. Gosling, S. Hagemann, N. Hanasaki, R. Harding, J. Heinke, P. Kabat, S. Koirala, T. Oki, J. Polcher, T. Stacke, P. Viterbo, G. P. Weedon and **P. J.-F. Yeh, 2011**: Multimodel estimate of the global water balance: setup and first results. ***J. of Hydrometeorology,*** doi:10.1175/2011JHM1324.1. (IF: 3.05, Citation times: 18)

23. Cho, J., H. Komatsu, Y. Pokhrel, P. J.-F. Yeh, T. Oki, S. Kanae, **2011**: The effects of annual precipitation and mean air temperature on annual runoff in global forest regions. ***Climatic Change,*** doi:10.1007/s 10584-011-0197-3 (IF: 3.39)

24. Pokhrel Y., Hanasaki, S. Koirala, J. Cho, H. Kim, **P. J.-F. Yeh**, S. Kanae and T. Oki, **2012:** Incorporating anthropogenic water regulation modules into a land surface model, ***J. of Hydrometeorology,*** doi:10.1175/JHM-D-11-013.1. (IF:3.05)

25. Cho, J., S. Miyazaki, **P. J.-F. Yeh**, W. Kim, S. Kanae, and T. Oki, **2012:** Testing the hypothesis on the relationship between aerodynamic roughness length and albedo using vegetation structure parameters**.** ***Int J. Biometeorol***., doi:10.1007/s00484-011-0445-2 (IF: 2.25)

26. Cho, J., T. Oki, **P. J.-F. Yeh**, W. Kim, S. Kanae and W. Otsuki, **2012:** On the relationship between the Bowen ratio and the near-surface air temperature, ***Theoretical and Applied Climatology***, doi:10.1007/s 00704-011-0520-y (IF: 1.94)

27. Okazaki A., **P. J.-F. Yeh**, K. Yoshimura, M. Watanabe, M. Kimoto, and T. Oki, **2012:** Estimation of flood risk change under global warming using MIROC5 simulations and discharge probability index, ***Journal of the Meteorological Society of Japan***, 90, 509-524, doi:10.2151/jmsj.2012-405 (IF: 1.23)

28. Pokhrel Y., Hanasaki, **P. J.-F. Yeh**, T. Yamada, S. Kanae and T. Oki, **2012:** Model estimates of sea level change due to anthropogenic impact on terrestrial water storage. ***Nature Geoscience***, doi:10.1038/ngeo147 (IF: 10.39, ranked 1/170 in Geosciences, Multidisciplinary)

29. Taylor R. G., B. Scanlon, P. Döll, M. Rodell, R. van Beek, Y. Wada, L. Longuevergne, M. LeBlanc, J. S. Famiglietti, M. Edmunds, L. Konikow, T. Green, J. Chen, M. Taniguchi, M. F.P Bierkens, A. MacDonald, Y. Fan, R. Maxwell, Y. Yechieli, J. Gurdak, D. Allen, M. Shamsudduha, K. Hiscock, **P. J.-F. Yeh,** I. Holman and H. Treidel, **2012**: Ground water and climate change, ***Nature Climate Change,*** doi:10.1038/nclimate1744.

30. Watanabe S., S. Kanae, S. Seto, **P. J.-F. Yeh**, Y. Hirabayashi, T. Oki, **2012**: Intercomparison of bias-correction methods for monthly temperature and precipitation simulated by multiple climate models. ***Journal of Geophysical Research – Atmospheres,*** 117, D23114, doi:10.1029/2012JD018192. (IF: 3.02)

Papers in Revision and Submitted Manuscripts

1. **Yeh, P. J.-F.**, T. Oki, T. Ngo-Duc, K. Yoshimura, H. Kim, Y. Shen, S. Seto, and S. Kanae: Seasonal variations in terrestrial water storage and its components in large river basins. (in revision)
2. **Yeh, P. J.-F,** M. –H. Yuan, J. Cho, T. Oki, C. Y. Chang: Trend analysis and consistency across the hydrologic cycle in the US Midwest in a warming climate. (submitted)
3. **Yeh, P. J.-F,** X. He, T. Oki, Estimation of groundwater storage variations based on baseflow recession analysis. (in preparation)
4. Chien, H., **P. J.-F. Yeh**, J. H. Knouf: The potential impacts of climate change on streamflow in agricultural watersheds of the Midwestern United States, *J. of Hydrology* (in revisions)
5. Koirala, S., **P. J.-F. Yeh**, T. Oki, S. Kanae, A global modeling of land surface hydrology with the representation of shallow groundwater dynamics, Part I: Model development and validation. *Journal of Geophysical Research – Atmospheres* (in revision)
6. Koirala, S., **P. J.-F. Yeh**, T. Oki, S. Kanae, A global modeling of land surface hydrology with the representation of shallow groundwater dynamics, Part II: Parameter estimation and model validation. *Journal of Geophysical Research-Atmospheres* (in revision)
7. Cho, J., T. Oki, Y-W. Lee, **P. J.-F. Yeh**, S. Kanae, K. Otsuki, Detecting global land cover changes in desert areas from 2001 to 2008 using satellite data. (submitted)
8. Pokhrel Y., Y. Fan, G. Miguez-Macho**, P. J.-F. Yeh**, and S. -C. Han, The role of groundwater in the Amazon water cycle: 3. Influence on terrestrial water storage and comparison with GRACE. (submitted).

Book Chapters and other Peer-Reviewed Publications

1. Oki, T., H. Kim, N. Hanasaki, S. Kanae, S. Seto, and **P. J.-F. Yeh, 2009**: Recent Achievements in Macroscale Hydrological Modeling. ***GEWEX News***, 19(2), p.12-14.
2. Oki T. and **P. J.-F. Yeh, 2012**: The Water Resources. In ***Encyclopedia of Remote Sensing***, Njoku, E. G. (Eds), Springer. (in press)
3. **Yeh, P. J.-F**. Tang Q. and H. Kim, **2012**, Chapter 20: Validation of Gravity Recovery and climate Change Experiment Data for the Assessment of Terrestrial Water Storage Variations. In ***Advances in Hydrological Remote Sensing to Monitor Global Changes***, Ni-Bin Chang (Eds), CRC Press.

Referred Conference Proceedings

1. Jayawaedena A. W. and **P. J.-F. Yeh**, **2003**. Hydrological Modeling of the East River Catchment in China, Proceedings of International Conference on Management Water Resources under Climatic Extremes and Natural Disasters, Sigatoka, Fiji. P. 158-165.
2. **Yeh, P. J.-F.,** L. Fok, and J. H. W. Lee, **2004**. Hydrological simulation of the East River Basin (Dongjiang) in China, 4th International Symposium on Environmental Hydraulics and Sustainable Water Management, Lee and Lam (eds) P.1945~1950
3. Fok, L., A. Koenig, and **P. J.-F. Yeh, 2004**. Estimation of Total Nitrogen Export in the East River (Dongjiang) Basin: II. Source Apportionment and Distribution Using GIS Approach, 4th International Symposium on Environmental Hydraulics and Sustainable Water Management, Lee and Lam (eds) P.719~725
4. Fan, K.W., Fok, L., X. B. Ma, **P. J- F. Yeh,** D. S. Cheng, J.H.W. Lee, Z. Y. Wang, F. Chen, **2005**. Field Investigation on Biodiversity in the East River (Dongjiang). Proceedings of the 2nd International Yellow River Forum, Zhengzhou, China. P.87~97.
5. Koirala, S., **P. J.-F. Yeh**, T. Oki, and S. Kanae, **2010**, Fully dynamic groundwater representation in the MATSIRO land surface model, Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineers, 54.

6. Koirala, S., H. Yamada, **P. J.-F. Yeh**, T. Oki, Y. Hirabayashi, and S. Kanae, **2012**, Global simulation of groundwater recharge, water table depth, and low flow using a land surface model with groundwater representation, Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineers, 56.

Conference Presentations

1. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **1997**, The Role of Topography, Climate, and Soil in Controlling the Spatial Distribution of Soil Moisture, American Geophysical Union 1997 Spring Meeting, Baltimore, Maryland.
2. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **1997**, Hydroclimatology of Illinois: A Comparison Between the Monthly Evaporation Estimated by Soil Water Balance and Atmospheric Water Balance, American Geophysical Union **1997** Fall Meeting, San Francisco, CA.
3. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **1998**, On the Cross-Correlation Between Topography and Large-scale Soil Moisture Distribution, American Geophysical Union 1998 Spring Meeting, Boston, MA.
4. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **2000**, The Representation of Groundwater Dynamics in a Land Surface Scheme, American Geophysical Union 2000 Fall Meeting, San Francisco, CA.
5. **Yeh, P. J.-F.,** and Jayawaedena A. W.**, 2003.** A Hydrological Model For Ungauged Basins Using the Kinematic Wave Approach, IUGG 2003 Meeting, Sapporo, Japan.
6. **Yeh, P. J.-F.,** and E. A. B. Eltahir, **2003**. Representation of Water Table Dynamics In a Land Surface Parameterization Scheme, AGU Fall Meeting, San Francisco.
7. **Yeh, P. J.-F.,** L. Fok, and J. H. W. Lee, **2004**. Hydrological simulation of the East River Basin (Dongjiang) in China, 4th International Symposium on Environmental Hydraulics and Sustainable Water Management. Hong Kong. China
8. Fok, L., A. Koenig, and **P. J.-F. Yeh**, **2004**. Estimation of Total Nitrogen Export in the East River (Dongjiang) Basin: II. Source Apportionment and Distribution Using GIS Approach. 4th International Symposium on Environmental Hydraulicsand Sustainable Water Management. Hong Kong, China.
9. **Yeh, P. J. –F**. and E. A. B. Eltahir, **2005**, The Role of Groundwater in Climate System, Invited Talk, American Geophysical Union 2005 Fall Meeting, San Francisco. (Invited Talk)
10. Fan, K.W., Fok, L., X. B. Ma, **P. J.-F. Yeh**, D. S. Cheng, J.H.W. Lee, Z. Y. Wang, F. Chen, **2005**. Field Investigation on Biodiversity in the East River (Dongjiang). The 2nd International Yellow River Forum, Zhengzhou, China.
11. **Yeh, P. J. –F**. and J. Famiglietti, **2006**, Investigating the Propagation of Regional Droughts and Floods within the Soil Profile in Illinois, European Geosciences Union General Assembly, Vienna, Austria.
12. **Yeh, P. J. –F**. and J. Famiglietti, **2006**, Hydroclimatic Anomaly Propagation with Increasing Depth of soil Profile in Illinois – implication for Land Memory Processes, CPPA Principle Investigator's Meeting, Tucson, Arizona.
13. **Yeh, P. J. –F**. , S. C. Swenson, J. Famiglietti, and M. Rodell**, 2006**, Remote Sensing of Groundwater Storage Changes in Illinois Using GRACE, AGU Fall Meeting, San Francisco.
14. Lo. M., **P. J.-F. Yeh**, and J. Famiglietti, **2006**, Impact of Water Table Dynamics on Hydrological Simulation of the NCAR CLM, AGU Fall Meeting, San Francisco.
15. Swenson, S. C., **P. J. –F. Yeh**, J. Wahr, and J. Famiglietti, **2006**, GRACE Estimates of Terrestrial Water Storage: Validation and Applications, AGU Fall Meeting, San Francisco.
16. **Yeh, P. J. –F.,** and J. Famiglietti, **2007**, Estimation of Terrestrial Water Storage Changes Using GRACE and Combined Land-Atmospheric Water Balance, AGU Spring Meeting, Acapulco, Mexico. (Invited Talk)
17. **Yeh, P. J. –F.,** and J. Famiglietti**, 2007**, Regional Groundwater Recharge and Groundwater Evapotranspiration in Illinois. , AGU Fall Meeting, San Francisco.
18. Lo. M., **P. J.-F. Yeh**, and J. Famiglietti**, 2007**, Using Baseflow to Constrain Water Table Depth Simulations in the NCAR Community Land Model (CLM). AGU Fall Meeting, San Francisco.

19. Oki, T., **P. J.-F. Yeh**, K. Yoshimura, H. Kim, Y. Shen, T. Ngo-Duc, S. Seto, and S. Kanae, **2008**, Seasonal Variations of Total Terrestrial Water Storages in Major River Basins, *World Climate Research Programme*, Tokyo, Jan.

20. **Yeh, P. J.-F**., T. Ngo-Duc, H. Kim, and T. Oki, **2008**, Global evaluation of remote sensing GRACE water storages using reanalysis data and streamflow measurements. The 5th annual Meeting of Asia Oceania Geosciences Society (AOGS), Busan, Korea.

21. **Yeh, P. J.-F.**, **2008**, The role of shallow aquifers in the regional hydroclimatology. International conference of Hydrological Changes and Management from Headwater to the Ocean (HydroChange 2008), October 1-3, Kyoto, Japan.

22. **Yeh, P. J.–F**., H. Kim, S. Koirala, and T. Oki, **2008**, Global evaluation of remote sensing GRACE water storages using the combined land-atmosphere water balance computation, 4thConference of Asia Pacific Association of Hydrology and Water Resources (APHW), 3-5 Nov., Beijing, China.

23. **Yeh, P. J.-F.**, and T. Oki, **2008**, Assessment of Terrestrial water storage dynamics from daily to interannual timescales. AGU Fall Meeting, 15-19 Dec. 2008, San Francisco, USA.

24. Koirala, S., **P. J.-F. Yeh**, H. Kim, S. Kanae, and T. Oki, **2008**, Global hydrological simulation using MATSIRO-TRIP land surface model with groundwater representation, AGU Fall Meeting, 15-19 Dec., San Francisco, USA.

25. Kim. H., **P. J.-F. Yeh**, T. Oki, and S. Kanae, **2008**, Temporal variation of terrestrial water storage components in global river basins inferred from GRACE and LSM, *GRACE Science Team Meeting*, San Francisco, USA, Dec.

26. **Yeh, P. J.-F.,** H. Kim, and T. Oki, **2009**, Assessment of Large-scale Terrestrial Water Storage Dynamics from Multiple Sources, The 6th International Scientific Conference on the Global Energy and Water Cycle and Joint GEWEX/iLEAPS Sessions, Melbourne, Australia.

27. Kim, H., **P. J.-F. Yeh**, T. Oki, and S. Kanae, **2009**, The role of rivers in the seasonal variations of terrestrial water storage over global basins, *GRACE Science Team Meeting*, Nov., Austin, USA.

28. **Yeh P. J.-F.**, **2009**, Assessment of terrestrial water storage dynamics at multiple timescales from multiple data sources, AGU Fall Meeting, 14-18 December, San Francisco, USA

29. **Yeh P. J.-F., 2010**, Characterization of floods and droughts in the combined land-atmosphere hydrological cycle under climate change. International Workshop of Water Vulnerability ad Adaptive Governance under the Climate Change and Development, 17-19 September, Beijing, China. **(Invited Talk)**

30. **Yeh P. J.-F., 2010**, Characterization of Atmospheric and terrestrial hydrological cycle changes and their interactions, International Workshop of TCCIP Project on Climate Change, 1-3 November, Taipei, Taiwan. **(Invited Talk)**

31. **Yeh P. J.-F.,** M. Yuan, H. Kim, S. Koirala, Y. Pokhrel, T. Oki, **2010**, Characterization of long-term atmospheric and terrestrial hydrological cycle change from multiple data sources,. AGU Fall Meeting, 13-17 December, San Francisco, USA.

32. Koirala, S., **P. J.-F. Yeh**, S. Kanae, and T. Oki, **2010**, Estimation of groundwater-supplied evapotranspiration in the global modeling context, International Workshop on Global Change Projection: Modeling and Impact Assessment, February, Tsukuba, Japan.

33. Koirala, S., **P.J.-F. Yeh**, T. Oki, and S. Kanae, **2010**, Fully dynamic groundwater representation in the MATSIRO land surface model, 54th Annual Conference on Hydraulic Engineering, Japan Society of Civil Engineers, Japan, March, Hokkaido University, Japan.

34. Koirala, S., **P. J.-F. Yeh**, S. Kanae, and T. Oki, **2010**, Explicit representation of groundwater process in a global-scale land surface model to improve the prediction of water resources, EGU General Assembly, May, Vienna, Australia.

35. Koirala, S., **P. J.-F. Yeh,** T. Oki, and S. Kanae, **2010,** Parameter estimation of a groundwater representation applicable in a global-scale land surface model, Proceedings of Annual Conference, Japan Society of Hydrology and Water Resources, Sep, Tokyo, Japan.

36. Koirala, S., **P. J.-F. Yeh**, S. Kanae, T. Oki, **2010,** Analysis of groundwater-supplied evapotranspiration in global-modeling context, 2nd International Conference on Hydrology delivers Earth System Science to Society, June, Tokyo, Japan.

37. Kim, H., T. Oki, J. Cho, S. Koirala, S. Kanae, and **P. J.-F. Yeh**, **2010,** Estimation of uncertainty in ensemble land surface simulations, 2nd International Conference on Hydrology delivers Earth System Science to Society, June, Tokyo, Japan.

38. Oki, T., Y. Pokhrel, **P. J. –F. Yeh**, S. Koirala, S. Kanae, and N. Hanasaki, **2010,** Identifying the hotspots of non-renewable water use using HiGW-MAT: A new land surface model coupled with human interventions and ground water reservoir, AGU Fall Meeting, 13-17 Dec, San Francisco, USA. (**Invited Talk**)

39. Koirala, S., H. Yamada, **P. J.-F. Yeh,** T. Oki, and S. Kanae, **2011**, Global-scale modeling of groundwater recharge and water table depth using a land surface model with groundwater representation, Japan Geoscience Union Meeting.

40. **Yeh, P. J.-F.,** T. Oki, S. Koirala, and S. Kanae, **2011**, Estimation of terrestrial water storage from global hydrological modeling, GRACE and land-atmosphere water balance analysis, World Climate Research Programme (WRCP) Open Science Conference, Denver, Colorado, Oct. 23-28.

41. Koirala, S., **P. J.-F. Yeh**, T. Oki, and S. Kanae, **2011**, Climate-soil-vegetation control on groundwater-supplied evapotranspiration in the global modeling context, World Climate Research Programme (WRCP) Open Science Conference, Denver, Colorado, Oct. 23-28.

42. Pokhrel Y., S. Koirala, T. Yamada, N. Hanasaki, **P. Yeh,** K. Yoshimura, S. Kanae, T. Oki, **2011**, Simulating the effects of irrigation pumping on global groundwater depletion, World Climate Research Programme (WRCP) Open Science Conference, Denver, Colorado, Oct. 23-28.

43. **Yeh P. J.-F**., S. Koirala, T. Oki, **2011**, Analysis of Terrestrial Water Storage Components from Global Hydrological Model Simulations Validated by GRACE data and Water Balance Analysis, AGU Fall Meeting, 5-9 December 2011, San Francisco, USA.

44. **Yeh P. J.-F., 2012,** Estimation of Terrestrial Water Storage from Global Hydrological Modeling, Remote Sensing, and Land-atmosphere Water Balance Analysis, AOGS – AGU (WPGM) Joint Assembly, 13-17 August, Singapore.

45. **Yeh P. J.-F., 2012,** Estimation of Large-scale Terrestrial Water Storage Variations for Prediction of Flood and Drought, 2012 APEC Typhoon Symposium/International Workshop of Typhoon and Flood with the ACTS (APEC Research Center for Typhoon and Society), June 5 to 7, Taipei, Taiwan. (**Invited Talk**)

46. **Yeh P. J.-F.**, X. He, S. T. Oki, **2012**, Estimation of groundwater storage variations based on baseflow recession analysis, AGU Fall Meeting, 3-7 December, San Francisco, USA.

47. He, X., H. Kim, **P. J.-F. Yeh**, T. Oki, **2012**, Impact of improved atmosphere forcing data and soil-vegetation parameters in terrestrial hydrologic modeling over West Africa, AGU Fall Meeting, 3-7 December, San Francisco, USA.

48. Pokhrel, Y. N., Y. Fan, G. Miguez-Macho, **P. J. -F. Yeh**, and S-C Han, **2012**, Role of surface water and groundwater on terrestrial water storage variation in the Amazon, AGU Fall Meeting, 3-7 December, San Francisco, USA.

49. Koirala, S., Y. Hirabayashi, **P. J.-F. Yeh**, S. Kanae, and T. Oki, **2012**, Uncertainties in global modeling of groundwater-induced increase in evapotranspiration, AGU Fall Meeting, 3-7 December, San Francisco, USA.

Research Grants

1. Research Grants Council (RGC) of Hong Kong under the project #10204624: Water Balance Analysis and Hydrological Modeling of the Continental-scale Yangtze River Basin, China, Sep. 2003-Aug. 2005; $425,430 HKD total (~$54,500 USD), **Principal Investigator.**

2. Research Grants Council (RGC) of Hong Kong under the project #10204612: Macro-scale hydrological modeling of Mekong River Basin, September 2003 - September 2005, $425,430 HKD total (~$54,500 USD), **co-Investigator**.

3. **Team Member** - NASA Proposal “Assimilation of GRACE-derived river basin water storage changes into monthly water balance models”, PI: Peter Troch, 2006.

4. **Team Member** - NASA Proposal “Terrestrial Hydrology from GRACE: Decomposition, Continental Hydroclimatology and New Applications”, PI: J. S. Famiglietti, 2006.