**Postdoctoral Fellow position in The forced response of the ENSO-Indian monsoon teleconnection (position remains open until filled)**

* Employer: IBS Center for Climate Physics
* Location: Pusan National University (PNU), Busan, South Korea
* Discipline(s): dynamic meteorology, physical oceanography, climate dynamics, statistical physics
* Education Level: PhD
* Job type: Postdoctoral Fellow
* Salary: 50 million KRW/year (~ 39,000 EUR/year = ~ 44,700 USD/year)
* Term: Full Time, 2 years with possibility for renewal
* Closing Date: 12 May 2019, Korea Standard Time

The IBS Center for Climate Physics (ICCP) at Pusan National University, South Korea invites applications for a postdoctoral fellow position in the field of Earth system dynamics. The successful candidate will work with Tamas Bodai to carry out a carefully designed large ensemble simulation experiment on an Earth system model (CESM), the data from which enables the analysis of the forced response of climatic teleconnections. Forecast tools concerning the Indian monsoon (IM) rely on forecasts of the ENSO phenomenon in the Tropical Pacific. Given the reliance of hundreds of millions of people on the IM, it is vital to know how reliable these monsoon prediction tools remain in the 21st century under anthropogenic climate change. Analysis of historical data hints at the possibility that the ENSO-IM teleconnection weakened in the 20th c. However, a recent study of an Earth system model ensemble suggests that the teleconnection might actually strengthened in the 20th c., while no change could be detected under the IPCC’s strong RCP8.5 21st c. forcing scenario. Under the project, different hypotheses will be tested to explain these latest findings, on the one hand, and an innovative conceptually sound data analysis technique will be devised and applied to observational data, on the other hand. Given the broad interdisciplinary nature of the project, applicants with backgrounds in both atmospheric science or oceanography and dynamical systems theory or statistical physics will enjoy an advantage. It would be desirable that the candidate has experience with running simulations of complex general circulation models and handling a large amount of data. Familiarity with the ENSO and/or the monsoon phenomenon would be ideal. Candidates are expected to have strong computational skills, a solid publication/research record, creativity and an interest in working in an international and interdisciplinary research environment.

ICCP’s vision is to advance the understanding of our climate system and its sensitivity to a variety of forcings. The research center is part of the Institute for Basic Science (IBS, https://www.ibs.re.kr/eng), and offers a lively, international and supportive research environment. Any further questions regarding the positions should be directed to Tamas Bodai (bodait@yahoo.com). More information on the institute can be found at http://iccp.ibs.re.kr, and some information on the city of Busan can be found at https://en.wikipedia.org/wiki/Busan. Furthermore, check out https://www.numbeo.com/cost-of-living/ to compare Busan with other cities for the cost of living.

Application procedure:

Please submit a cover letter, including a statement of your research interests, curriculum vitae, the names of 2 references, and possibly three publications to Ms. U-jeong Seo (u\_jeongs@pusan.ac.kr).