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Room:301B

Time:May 25 11:00-11:15

Long-term observation of CO2 flux over a larch forest in northern foot of Mt. Fuji

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Larch forest is representative vegetation type of widespread region in northeast Eurasia where vulnerability to climate change is expected to be significant. Since length of growing season of the vegetation is affected by temperature, evaluation of climate change feedback in the carbon exchange process in the ecosystem has great importance. National Institute for Environmental Studies has been operating long-term observation of CO_2 flux over a larch plantation at the Fuji Hokuroku flux observation site in northern foot of Mt. Fuji since 2006. We have accumulated 9-year records of observational data set. The observation is to be continued until 2025. In this presentation, we will investigate year-to-year variation of CO_2 exchange and its relationship with environmental factors based on the observational data.

Keywords: carbon dioxide, flux, forest ecosystem, climate change, long-term monitoring, micrometeorology