

Demonstration test of atmosphere sampling system using combination of solar and fuel battery at Western part of Yakushim

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We have measured PM 2.5 using solar panel and fuel cell system at Southern area of Yakushima island Japan.

In order to clarify the long-range transport of atmospheric pollutants in the East Asian regions, we have challenged the continuous observation at a mountainous area without the commercial power. Although, we are considered to be better the system with a solar battery, the pump was sometimes stopped for the brownout cause by the lack of insolation. Thereupon, we make an attempt the continuous observation of atmospheric pollutants using the combination of the solar and fuel battery. And thus we achieve the continuous observation of the atmospheric pollutants. Consequently, we will report new monitoring system.