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## A trial of cross-disciplinary classes at the university and the high school on the seasonal transition and the seasonal feeling from autumn to winter in East Asia (joint activity of meteorology with Japanese classical literature, music and art)

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There are many steps of the rapid seasonal transitions in East Asia influenced by the seasonal cycle of the Asian monsoon system, resulting in the variety of "seasonal feeling" there. For example, the extremely cold air flowing from the Siberian continent to the Japan Islands is transformed by the huge supply of heat and moisture from the underlying sea (the Japan Sea) in midwinter, which brings the large amount of snowfall in the Japan Sea side of the Japan Islands. However, although the air temperature there is still rather higher from November to early December than in the midwinter, such wintertime weather pattern often appears due to the early development of the Siberian high (however, the precipitation is brought not as in snow but as rain). The intermittent rainfall in such situation due to the shallow cumulus clouds from late autumn to early winter is called the word "Shi-gu-re" in Japanese. It is also well known that the "Shi-gu-re" is often used for expression of the "seasonal feeling" in the Japanese classical literature (especially we can see in the Japanese classic poems called "Wa-Ka").

The present study reports a trial of cross-disciplinary class on the seasonal cycle in East Asia in association with the "seasonal feeling" from autumn to winter, by the joint activity of meteorology with the Japanese classical literature, the music, and the art. Firstly, we will summarize the characteristics of the large-scale climate systems and the daily weather situations from autumn to winter. We will also introduce some examples of the expression of the weather situation found in the Japanese classical poems. Next the outline of the cross-disciplinary classes on such topics at the Faculty of Education, Okayama University, and those at Okayama-Ichinomiya High School and Attached Junior High School of Okayama University will be presented together with the analyses of these practices. We should note that the present trial of the classes might also contribute to providing the study materials for the cultural understanding, which is one of the important elements for the ESD (Education for Sustainable Development).