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## Introduction of Various CAWSES-II / Capacity-Building Activities of Japan

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In this talk, we introduce various capacity-building activities of Japanese observation-network projects that have been led by Japanese domestic members of CAWSES-II Capacity-building group.

Makita et al. are promoting SARINET project whose objective is to examine the environment of the upper atmosphere in the Geomagnetic Hole (GH) around South America by using imaging Riometers (IRIS) and 1ch Riometers. They have performed cooperative research with Brazilian students of Santa Maria University and technical meetings with related universities.

Munakata et al. are promoting GMDN project in order to identify the precursory decrease of cosmic ray intensity that takes place more than one day prior to the Earth-arrival of shock driven by an interplanetary coronal mass ejection, through the cooperation with USA, Australia, Brazil, Kuwait, Armenia and Germany.

Mizuno et al. are promoting NDACC project that aims to investigate composition's change of middle atmosphere and elucidation of the mechanism by expanding lidar-observation network mainly in Argentina.

Tsuda et al. are promoting "Ground-based Atmosphere Observation Network in Equatorial Asia" in which they are doing internationally collaborated researches on the behavior of the equatorial atmosphere and ionosphere in tropical Asia by using ground-based and satellite observations, so that the scientific North-South problem will be improved.

Keywords: SCOSTEP, CAWSES-II, Capacity Building, ground-based observation network