

Evaluation of Routine Based Radiosonde Data Obtained in Indonesia for the Precise Observation during the YMC Field Campaign

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During the 2-year field campaign of the international project Years of the Maritime Continent (YMC) starting from July 2017, several intensive observations will be conducted to study weather and climate systems over the MC region. Since coordination with the local meteorological agencies is a key to establish adequate observation network, those routine based data sets should also be well evaluated for their scientific use. Currently Meisei radiosonde is used at the 16 radiosonde stations in Indonesia. Thus, we evaluated those data quality focusing on the humidity based on the intercomparison with other radiosonde and independent measurement system such as GPS-derived water vapor. This time we performed quality control procedure to the data of Meisei RS-11G, and confirmed that some known errors such as discontinuity of RH at 0 deg-C level, which was found in RS-06G, have been removed. Since new sensors iMS-100 will be used in the BMKG stations, continuous evaluating procedure is required. Therefore, in this study, not only current correction scheme but also the basic strategy of quality control is discussed.

Keywords: YMC, radiosonde humidity data correction