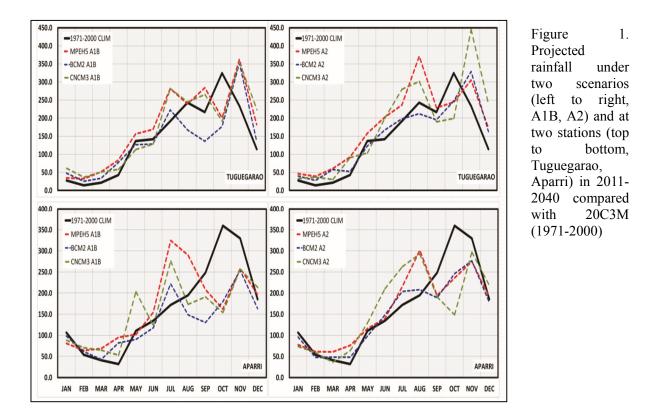
Basconcillo, J., A. Lucero, A. Solis, R. Sandoval, Jr., E. Bautista, T. Koizumi, and H. Kanamaru, 2016: Statistically downscaled projected changes in Seasonal Mean Temperature and Rainfall in Cagayan Valley, Philippines. *J. Meteor. Soc. Japan*, **94A**, 151-164. https://doi.org/10.2151/jmsj.2015-058



- Regarding seasonality, dry months (March-April-May) will continue to remain dry but within the rainy season, July and November are likely to become more notable wet months (Fig. 1).
- In both stations, the future projections show more pronounced double peaks in the annual cycle of rainfall compared to the 20th century the first peak between July and September, and the second in November. In fact, July precipitation shows substantial increases (typically +50 to +100mm) in all models, scenarios, and stations, suggesting a shift of rainfall distribution to earlier in the rainy season.
- Analysis of aggregated projected annual maximum (Tmax) and minimum temperature (Tmin) (2011-2040) in Cagayan Valley reveals higher increase in Tmin compared to Tmax. The rate of increase in Tmin under A1B is 0.07°C per year and 0.05°C per year for Tmax. Under A2 scenario, the rate of temperature increase is slightly smaller: 0.05°C and 0.04°C per year (Tmin and Tmax, respectively). This differentiated projection for Tmax and Tmin suggests that diurnal temperature range will be smaller in the future.