

# **ASPECT OF THE SEASONAL AND INTERANNUAL VARIABILITY OF CLIMATIC CONDITION OVER INDOESIA MARITIME CONTINENT AND THEIR IMPACT**

**Sri Diharjo**  
**Director General**  
**Meteorological and Geophysical Agency of Indonesia**

## **Abstract**

Experiencing of the climatic condition over Maritime Continent of the tropical region Indonesia last decade of the 21<sup>st</sup> century had generated the new impact to the environment of the wildfires and enlarging haze phenomena or transboundary air pollution during the dry condition, flooding, wave and wind storm during wet condition. Referring from the previous occurrences of the weather and climate over this region, it seem to vary with respect the season year. Lack of the models and research for this region in the regional to global scales, the problem of the climatic variability prediction is still the task of the tropical meteorologist up to present time.

Much of the currents research emphasis in the modeling of the climatic variation as part of the climate change issue to be focused on the simulating the effects of increased green house gases and the interaction between atmosphere-ocean system. Lack of the data in the tropical area might encourage missing interpretations of the models. Arising prolonged of the Monsoon circulation activity during last two years as part of the regional scale aspect coincident with the strongest activity of the El Nino 1997/1998 might encourage the developing of the climate variation in the last decade of the 20<sup>th</sup> century. As we know the climate condition during the last decade in this century to be a little bit vary comparing with the two previous decades of 1971 – 1980 and 1981-1990.

Because strong variation of the climatic condition in the last decade of this century, the consequences impact to the environment encouraged the disaster (drought and flood). Prolonged drought of last 1991 over South East Asia region coursed the forest fires and transboundary air pollution and then continued with flooding and rough sea waters in the next 1992/1993. This situation continue again until approaching in the end of 20<sup>th</sup> century where current situation toward La Nina 1998/1999. Several matters concerning the climate variation will be discussed in this paper with the objective for collaboration in the research and development of the weather and climate system starting preparation of the data base as the base line for further studies over Maritime Continent of Indonesia.