
WHY HYDROLOGICAL MODELLING: SWOT ANALYSIS

Introduction. Water is considered as a finite resource, which make important role in life of all living organism, and for maintaining and supporting sustainable socio-economic development. However, due to exponential changes in climate and land use, spatial and temporal variability in the global water cycle are being reported by many studies [1]. Besides, human activities are affected by rapid social and economic developments, consequently, water has turned into the most demanded resource which leading to severe water shortage around the world [1, 2]. Clearly, greenhouse gas emission can be one of human activities, which hold great effect on water cycle. According to IPCC (2014), climate change can be characterized by temperature rise, and more frequent extreme events, including heavy rains, floods, sudden droughts, and heatwaves.

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