

Progress in American monsoon research: The rendition of the Atlantic warm pool in the reanalyses

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In this paper we examine the interannual variability of surface, sub-surface variations of the Atlantic Warm Pool (AWP) and its local and remote teleconnections with the atmosphere in a variety of ocean and atmospheric reanalyses. The AWP region is one of the poorly observed regions of the global oceans. Therefore, its depiction in the reanalyses is largely dependent on the fidelity of the data assimilation methodology, availability and influence of the remote observations, and the reliability of the model used in the data assimilation. We have in this paper examined three different ocean reanalyses, two different atmospheric reanalyses and two SST analyses.