

**Data Assimilation using RPSAS during the experiment of LBA, October, 15 to 29 2002**

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The analysis system implemented at CPTEC to regional Eta model to obtain the initial condition using the Regional Physical-space Statistical Analysis System (RPSAS) developed at Global Modeling and Assimilation Office (GMAO), from GSFC/NASA. The inclusion of the data from LBA campaign have an impact to weather forecast. The Eta model was integrated daily for the 00, 06, 12 and 18 GMT using as initial condition from analyses of the RPSAS, with radiosondes data from LBA experiment during October, 15 to 29, 2002. This paper presents the results of comparison between the analysis fields from RPSAS and SSI/NCEP analysis for geopotential height, humidity and wind to levels 850, 500 and 250 hPa to South America. The evaluation of the impact of weather forecast is realized using the prediction of the precipitation for 24, 48 and 72 hours, and compared with prediction using operational regional Eta model at CPTEC.

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