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1) INTRODUCTION

Main objectives of this work :

helpful to understand key processes in Convection Initiation (CI) and lifecycle ? **Method :** Synergic use of GPS, radars, and other observations + analyses/models.

2) MATERIAL AND METHODS



Vienna Enhanced Resolution Analysis (VERA)	Europea
(Steinacker et al. 2006; Bica et al. 2007) :	Forecast
Interpolates surface based data in order to perform	(Simons e
nodel independent 2D Analysis.	Resolution

• GPS signals are delayed by the atmosphere About 90 % of this delay comes from induced dipolar moment of atmospheric components \rightarrow accurately calculated from surface pressure (Saastamoinen 1972, Bevis et al 1985).

• About 10 % remaining are due to Water Vapour permanent dipolar moment : *Wet Delay* → gives total amount of WV along zenith path (IWV) or along each Slant satellite-station path (SIWV)



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