



Critical analysis of the impact of the assimilation of GPS radio occultation data at Environment Canada

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We have evaluated the potential of GPS radio occultation data, for both assimilation and verification applications, into the Canadian numerical weather forecast model. We will present our conclusions of this effort, seen in perspective. The results of the assimilation are in general positive, and we were able to improve the quality of the forecast products. But the properties of these data (high vertical resolution, uniform global coverage) allow for very interesting verifications to be carried out. Our main focus, is here to explore a number of issues that have shown to be nontrivial to solve, as well as the potential for additional applications of radio occultation data.