

**Abstract**

Modern weather analysis and forecasting has become a very complex enterprise, with aspects that are purely scientific, and others that are business operations-related. At Embry-Riddle Aeronautical University's Daytona Beach campus, a business process model of the weather forecasting enterprise has been used as a teaching tool in the undergraduate course Forecasting Techniques. The model consists of two major, interrelated components, known as the Weather Information Processing Cycle (WIPC), and the Provider-User Relationship (PUR). The WIPC describes forecasting from the traditional scientific point of view, but contains user-focused processes such as product tailoring, dissemination, and user integration in addition to the familiar scientific processes such as data collection, analysis, and prediction. The PUR examines the business relationship between the provider of meteorological information and the user of that information. While the PUR provides a bridge for students to progress from studying basic forecasting techniques in the WIPC to examining the business relationship between weather information providers and users, there are applications of this model beyond the classroom. This paper introduces the model and shows how it can be applied to investigate the relationship between aviation weather information providers and users, using examples from the interagency Next Generation Air Transportation System (NextGen) program.