Interactive database project - Meteo4U

K Kwok, G. Fricska

ABSTRACT

The Meteorological Service of Canada (MSC) at Environment Canada generates and stores a large volume of environmental information everyday. Predefined and widely available products such as public weather forecast bulletins, warning bulletins, and various numerical weather charts are on the Weatheroffice and Datamart websites and are used as our means to communicate a small subset of this information. Aside from these products, the Canadian public currently cannot easily access the majority of the data that is generated by MSC. With recent technological advances, a more useful method to access MSC data is now being developed. Through the use of an interactive web map interface, currently named Meteo4U, the public will have the ability to choose the products they want and the ability to download data used to generate these products. Users of Meteo4U will be able to display a range of meteorological forecast data (e.g. temperature, wind speed, precipitation) by interactively defining: 1. a geographic location, 2. a travel route, or 3. an area on a map. This project is one of the first official initiatives to use modern geospatial technologies to interactively share, distribute and disseminate meteorological data at the MSC.