

Upgrade of the Swedish weather radar network

Günther Haase

Swedish Meteorological and Hydrological Institute (SMHI), Sweden

Gyllander, Chatrine (SMHI)

Johnson, Daniel (SMHI)

Michelson, Daniel (SMHI)

E-mail: gunther.haase@smhi.se

The Swedish weather radar network (SWERAD) is operated jointly between the Swedish Meteorological and Hydrological Institute (SMHI) and the Swedish Armed Forces, with a common management organization. It consists of 12 Ericsson C-band Doppler weather radars and has not undergone any significant modification since it was developed in the 1980's. In a major modernization project all radars will be upgraded to dual-polarization capabilities until 2017. During the operational test for the first installation in Ängelholm, scheduled for spring 2014, a new scan strategy will be evaluated. Additionally, the central processing software at SMHI will be replaced. In this context BALTRAD plays an important role. We will present novel products from radar Ängelholm together with an overview of the BALTRAD functionalities used at SMHI.