

Workshop Description

Operational Radar Networks and Data Calibration
held on 14th – 16th October 2008 at our company in Neuss, Germany

Prof. Witold Krajewski, University of Iowa, USA
and

Dr. Alan Seed, Bureau of Meteorology, Australia
and

Dr. Daniel Sempere Torres, Polytechnic University of Catalonia, Spain

In the last decade many countries have combined their individual radars to a network. The advantage of such an operational radar network is definitely the extended coverage of the observational area. However, several questions have to be addressed: What kind of radar do you need and how many? Which is the best configuration of your network? What has to be considered for data processing and the quality check?

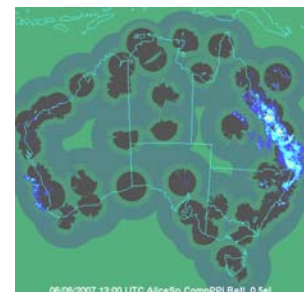
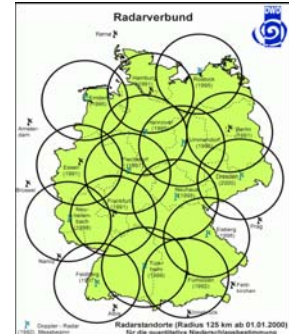
The goal of the workshop is to show the need and the limits of an operational radar network and to demonstrate the necessary effort to build a radar network. Data calibration methods to validate the obtained network data will be explained. This workshop is our opportunity and contribution to share knowledge, technology, lessons learned and to draw parallels between individual and expert's experiences with radar networks and data calibration.

We will have a look into existing radar networks. Their scan strategies will be explained and Meteorological service and other user requirements will be faced to radar capabilities and network manageability.


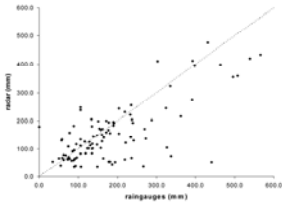


This course will explain how to consider the local conditions (climate, topography) of individual radars in the network and the automatic product generation. Processing algorithms, quality control and assessment procedures will be reviewed along with a discussion of the main sources of errors in radar data.

How you will benefit: Understand the design and manageability of operational radar networks, their product generation and the sources of errors and the required data calibration necessary for rainfall estimation and forecasting. Realize your position and identify your individual, incremental set-up of an operational radar network.

Who should attend: Meteorologists and hydrologists, weather forecasters, physicists and engineers. Other professionals who need to understand applications of operational radar networks and data calibration.



Questions concerning the workshop or assistance for arranging hotel and transportation should be directed to Annette Mohr by phone or by e-mail a.mohr@gematronik.com
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Workshop Program:	Places:
<p>Tuesday 14th October 2008, 09:00 – 17:00</p> <p>Opening and Introduction by Selex-Gematronik</p> <p>Session 1 Prof. Witold Krajewski, University of Iowa, USA (TBC)</p>	<p>Places:</p> <p>At Hotel Holiday Inn, Neuss</p> 
<p>Wednesday 15th October 2008, 10:00 – 17:00</p> <p>Session 2 Dr. Daniel Sempere Torres, Polytechnic University of Catalonia, Spain (TBC)</p>	<p>At company Selex-Gematronik GmbH, Neuss</p> 
<p>Special program topic:</p> <p>Session 2 offers also a practical excursion and field experiment with our mobile dual polarization radar system METEOR© 50DX. The field test will include the operational set-up of the mobile system, the measurement of data and the data evaluation (dependent on weather).</p> <p>A guided company tour will take place in the afternoon as well.</p>	<p>At countryside nearby Neuss</p> 
<p>Thursday 16th October 2008, 09:00 – 17:00</p> <p>Session 3 Dr. Alan Seed, Bureau of Meteorology, Australia (TBC)</p>	<p>At Hotel Holiday Inn, Neuss</p> 

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