

## **3.22 FROM PULSE TO PRODUCT \_UPDATE OF THE DUTCH WRN\_**

T.MATHIJSEN<sup>1</sup>, H. BEEKHUIS<sup>1</sup>

<sup>1</sup> Royal Netherlands Meteorological Institute (KNMI), Utrechtseweg 297, 3731 GA, De Bilt, The Netherlands  
t.mathijssen@knmi.nl

KNMI has updated his Weather Radar Network (WRN) in the years 2015-2016 during a European tender. As part of the tender process KNMI has reflected on what innovations could be requested from the industry, without running into major development costs.

As a result KNMI radars run nowadays the radars in an innovative scanning strategy called Constant Duty Cycle Scan. This scanning strategy provides an optimal probing of the atmospheric volume, enhancing at the same time the frequency stability of magnetron driven transmitters.

Other enhancements provided are in the area of calibration and monitoring of the Radars. Automated reports, containing a great amount of detail, are generated in order to have a clear view on the network calibration and performance.

This presentation will cover the operational setup of the Dutch Weather Radar Network, starting with the pulsed Magnetron driven transmitter, showing consecutive processing steps, finally resulting in the radar products KNMI disseminates to its professional users and the general public.