

Tailored Weather Radar Products for use in aviation

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1 Introduction

The customer requirements for the use of weather radar products and data in aviation dictate the tailoring of the products and service provisions to these particular needs. To facilitate the use of weather radar in Air Traffic Management strategic and tactical use, General Aviation self-briefing & navigation and Total Airport Management, a broad range of products and services has been developed and deployed by the Aeronautical Meteorological Service of the German national weather Service DWD.

2 Selected graphical products, data formats and services

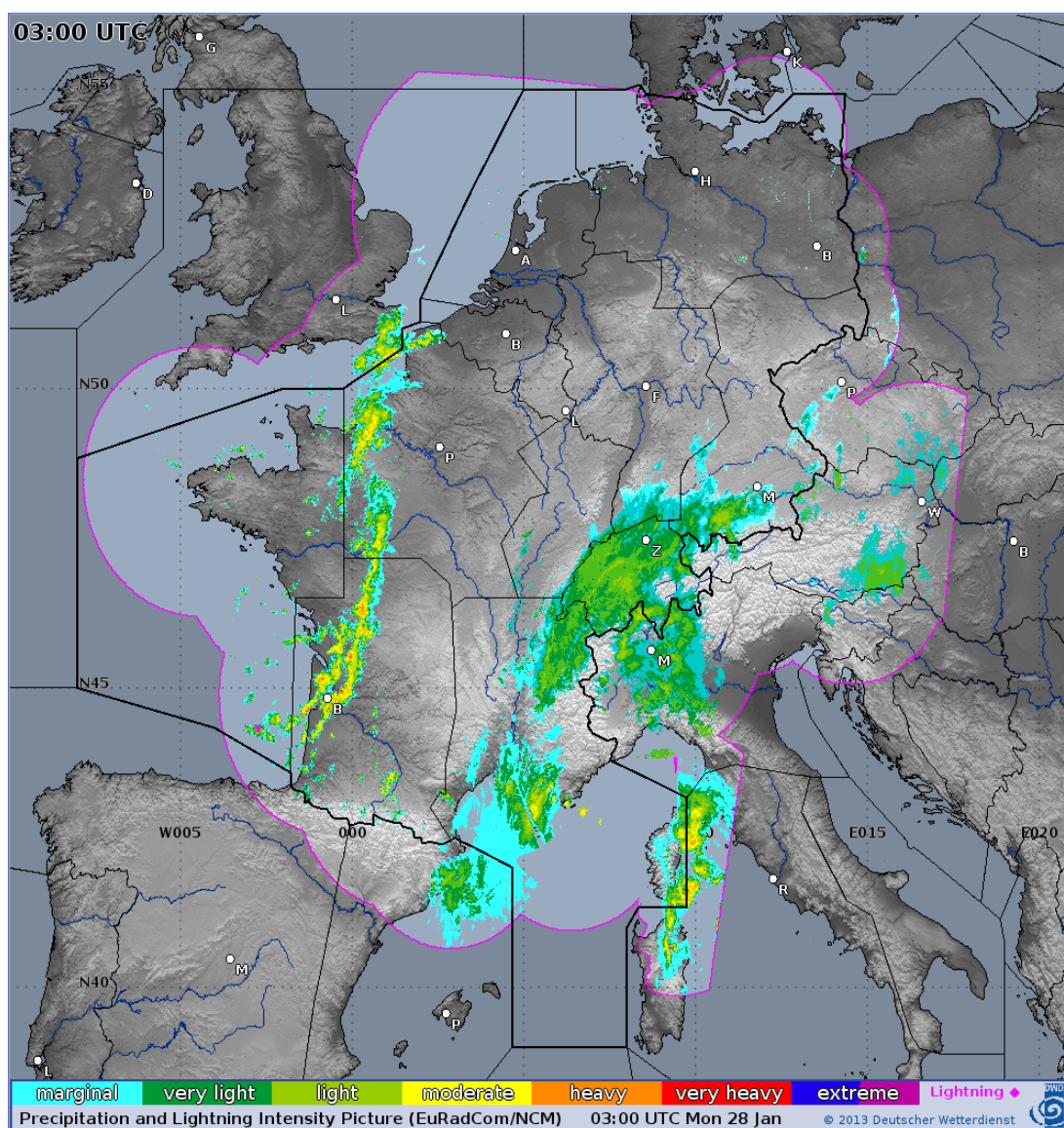


Figure 1: The EuRadCom Weather Radar Composite EuRadCom used by EUROCONTROL and the Deutsche Flugsicherung (DFS)

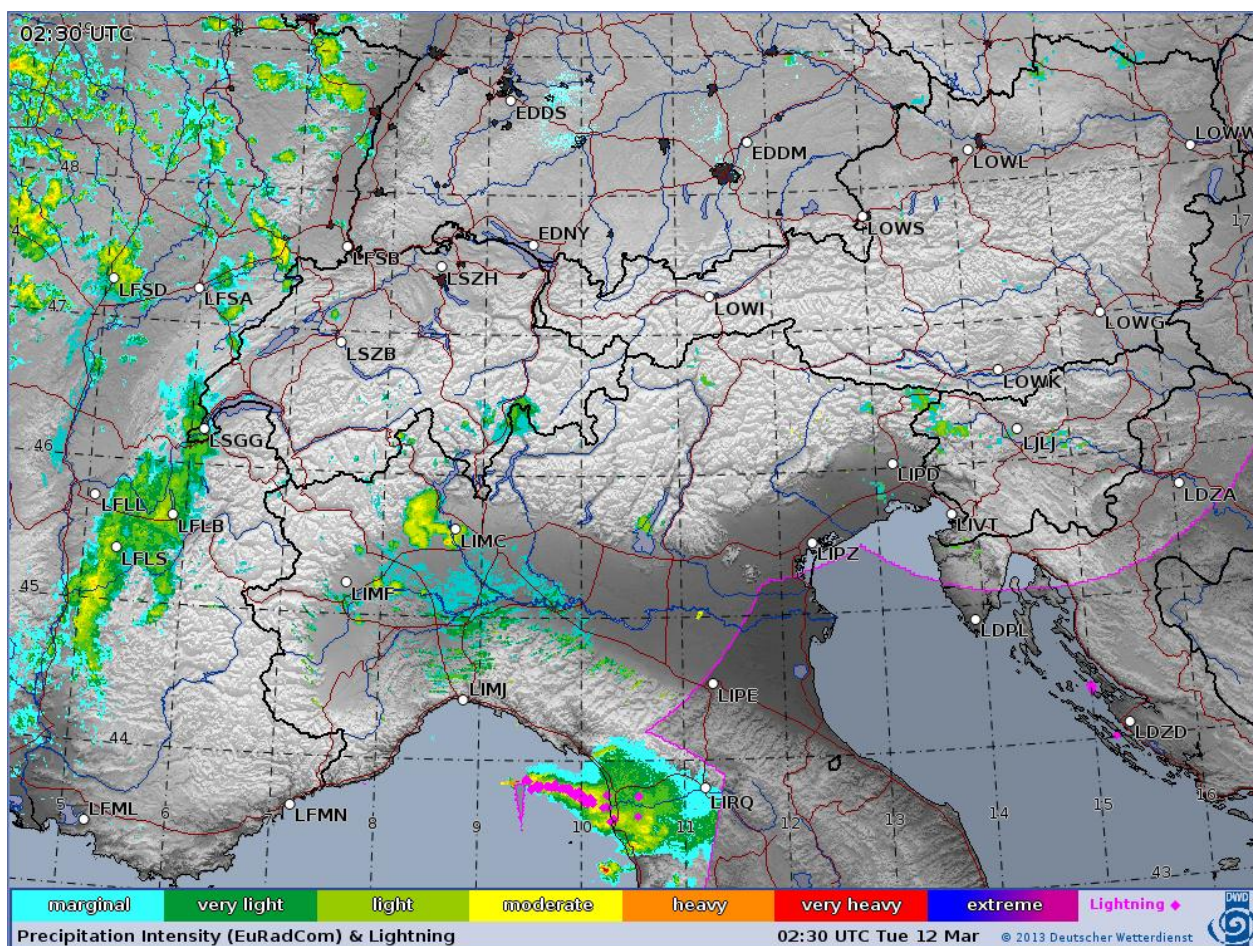


Figure 2: Map section of the Alps with EuRadCom data combined with lightning data.

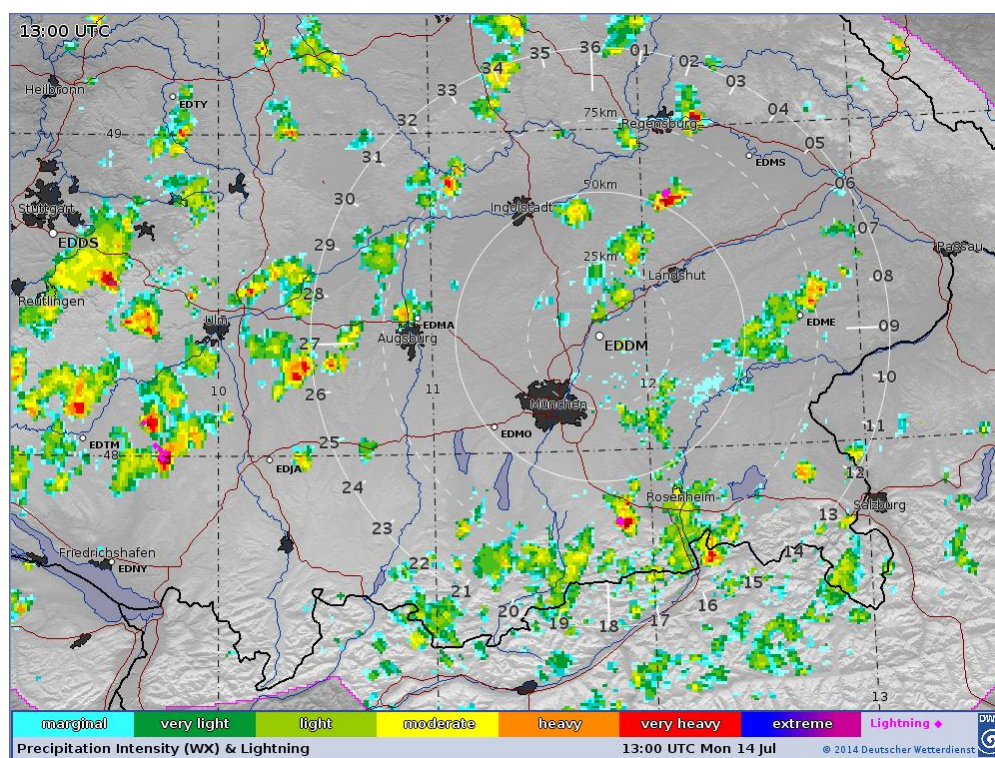


Figure 3: Local map section for the Munich International Airport with the national radar composite WX and lightning data.

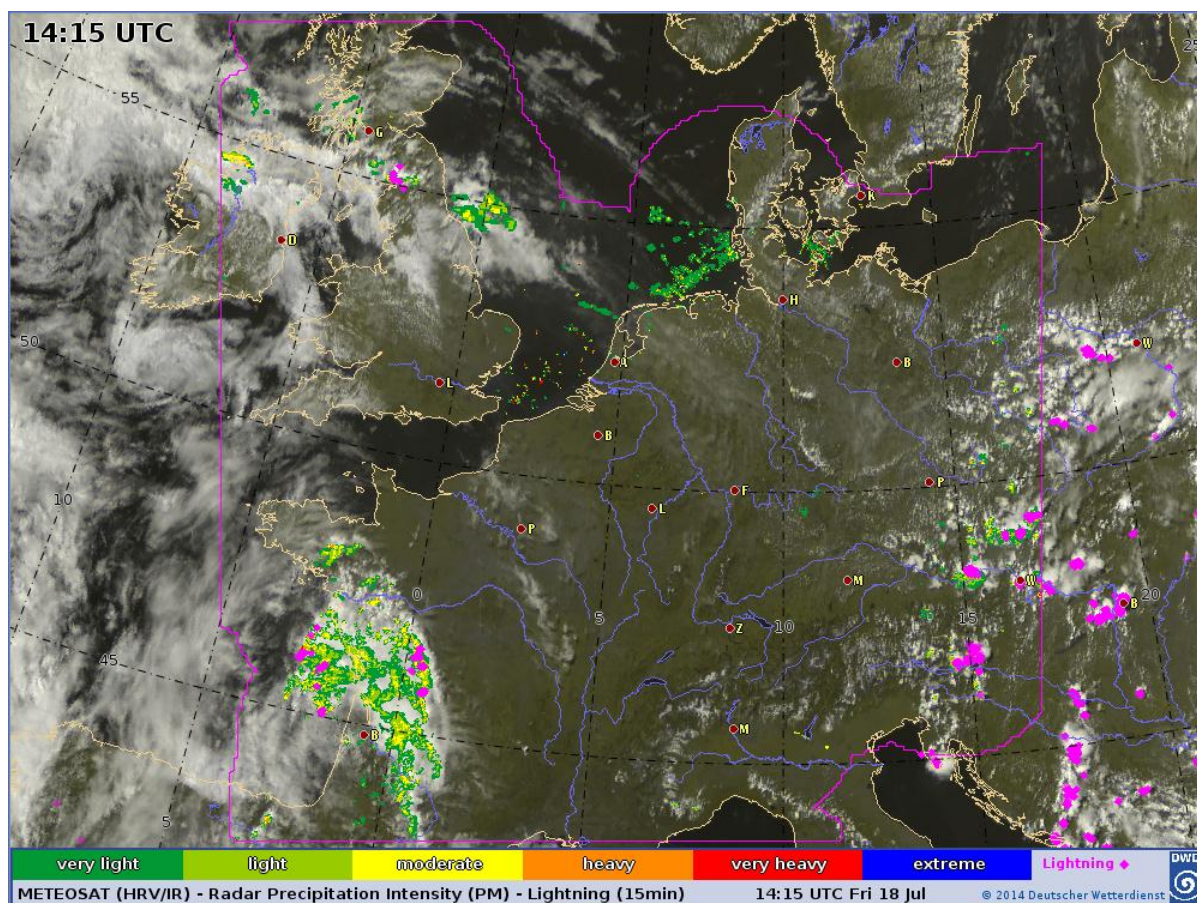


Figure 4: Combination of satellite, radar and lightning data.

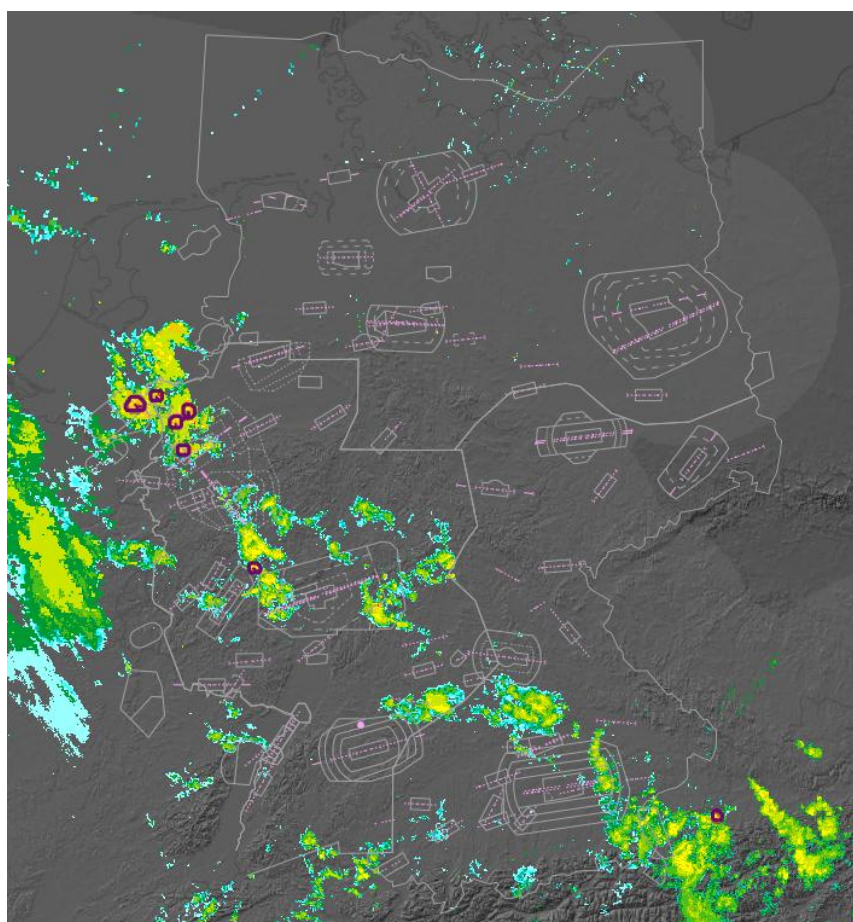


Figure 5: Radar & lightning data (HDF5) and RadTRAM data (XML-objects) in the German ATC system METFROG