

POLJOPRIVREDNI FAKULTET UNIVERZITET U NOVOM SADU PFNS DEPARTMAN ZA RATARSTVO I POVRTARSTVO



Università degli studi FIRENZE

DISPAA DIPARTIMENTO DI SCIENZE DELLE PRODUZIONI AGROALIMENTARI E DELL'AMBIENTE



UNIVERSITAET FUER BODENKULTUR WIEN BOKU DEPARTMENT FÜR WASSER-ATMOSPHARE-UMWELT



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AgMnet INTERNATIONAL SUMMER SCHOOL IN AGROMETEOROLOGY AND CROP MODELLING

27 June – 01 July 2016 Novi Sad, SERBIA



H2020-TWINN-2015

Numerical Weather Predictions





WRF ARW model

http://www.wrf-model.org/index.php

The Weather Research and Forecasting (WRF). WRF has a large worldwide community of registered users (over 30,000 in over 150 countries), and workshops and tutorials are held each year at NCAR. The WRF system contains two dynamical solvers, referred to as the ARW (Advanced Research WRF) core and the NMM (Nonhydrostatic Mesoscale Model) core. The ARW has been largely developed and maintained by the MMM Laboratory, and its users' page is: <u>WRF-ARW Users' Page</u>.





Tasks

- - install the WRF ARW
- - install the WRF browser
- - run the model for Balkan peninsula
- discuss and present the data





CROP MODELLING Summer School, Novi Sad, June 2016

Two runs of WRF ARW model, first from 21.05.- 24.05., second from 25.05.-28.05.2016. Data are extracted for Novi Sad (Latitude: 45.25, Longitude: 19.84), and compared with observations taken from Meteorological annual report of Republic Hydrometeorological serv



There are differences between temperatures, but it is following the same trend.



CROP MODELLING

Summer School, Novi Sad, June 2016



Relative humidity is very well foretasted. We see that differences are very small.



Summer School, Novi Sad, June 2016



Precipitation forecast showed in this example is also very good. The differences with observations are very small.