





Using NWC SAF Precipitation products at DHMZ

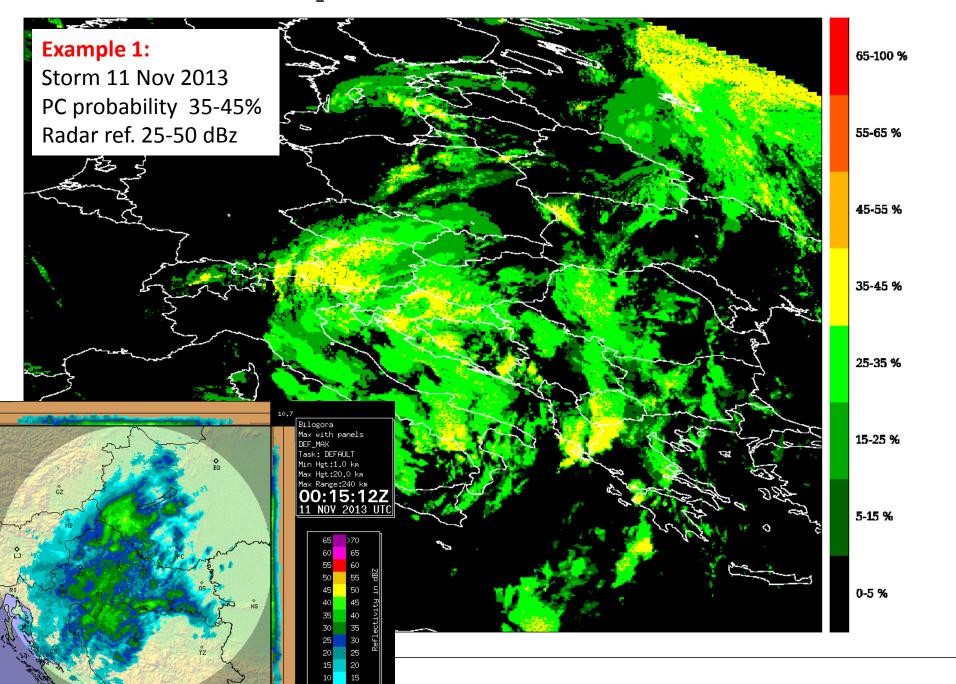


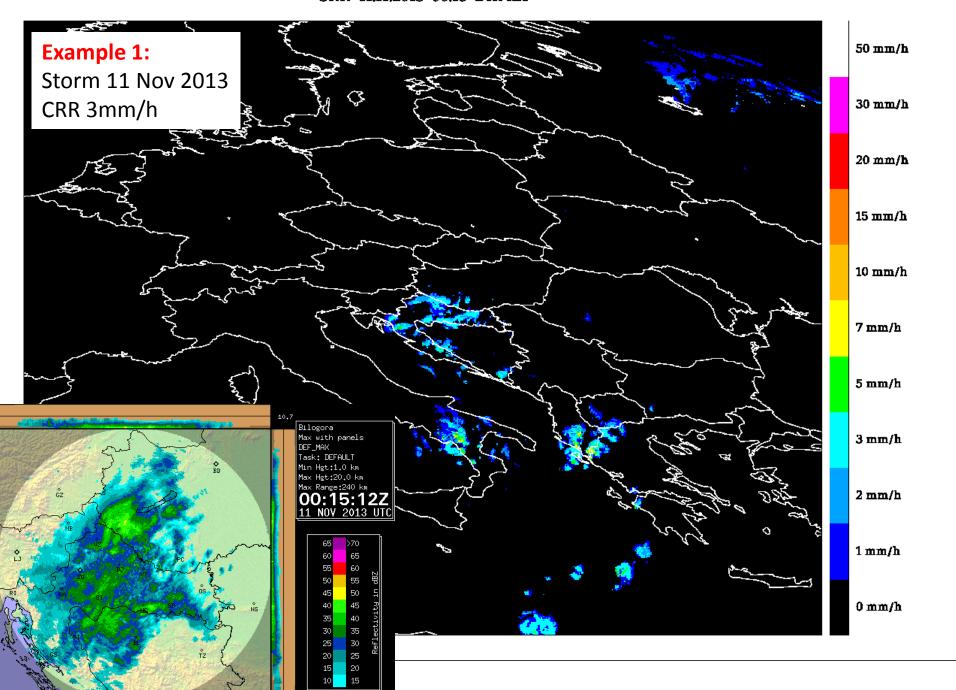
Nataša Strelec Mahović

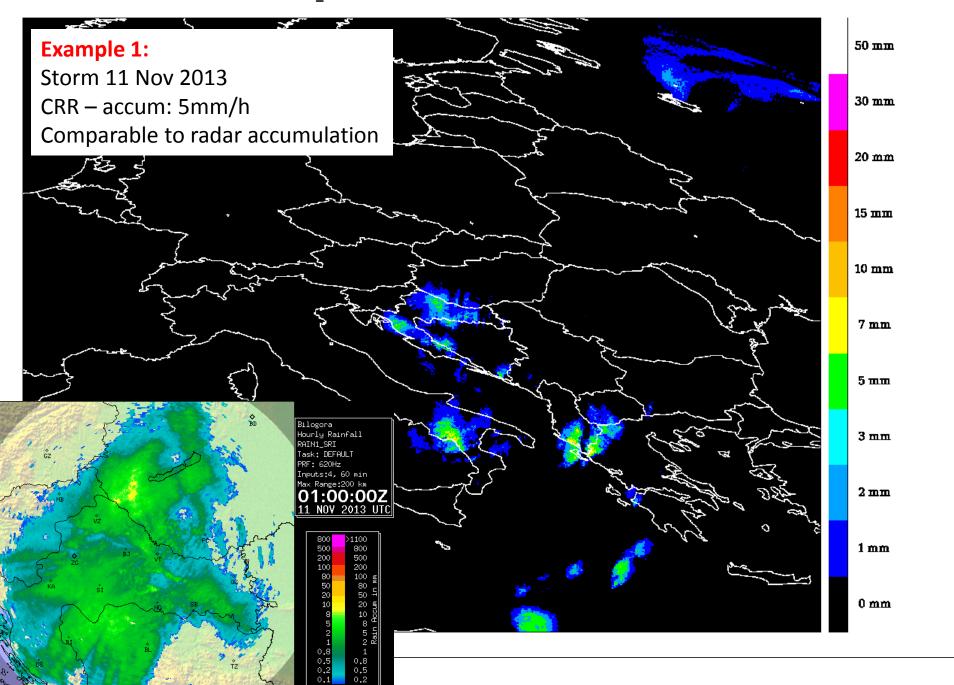


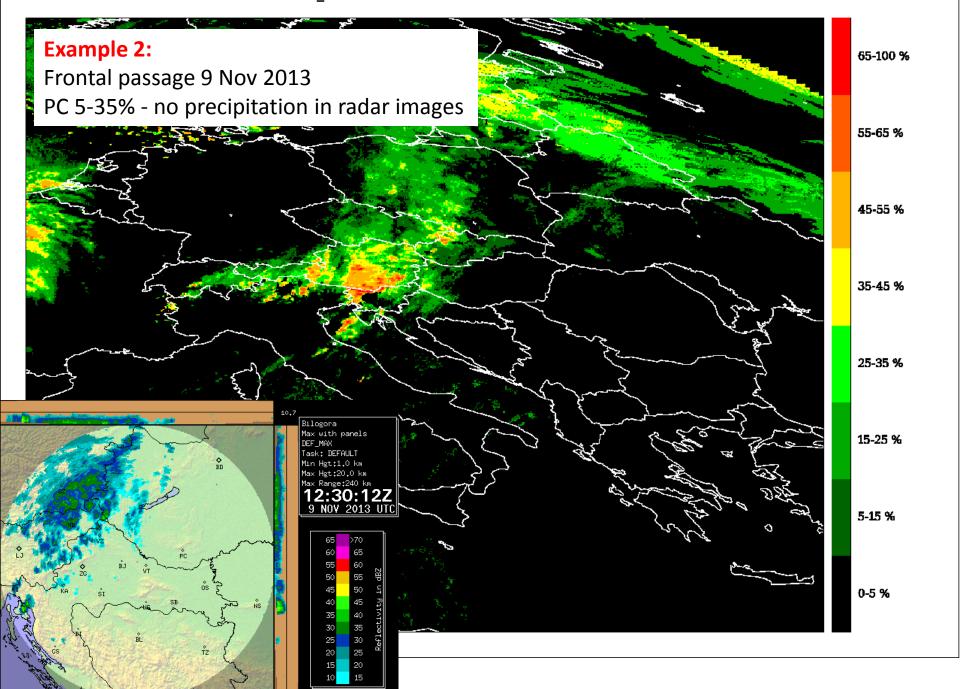
Status of NWC SAF at DHMZ

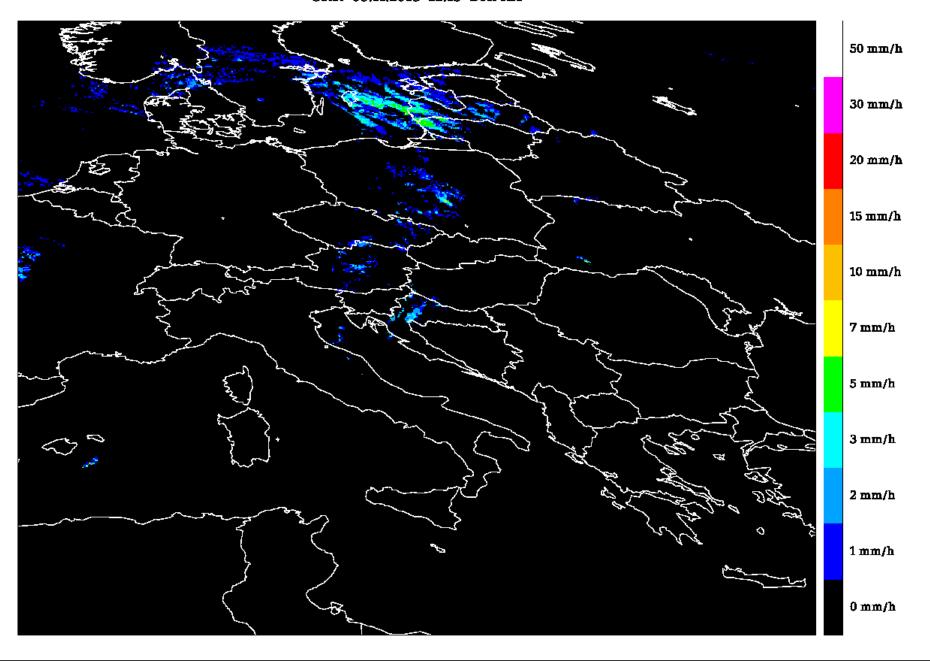
- NWC SAF package installed in 2012
- Currently performing upgrade to Version 2013
- At the moment all products run on a domain covering all Europe – smaller region (Central Europe) will be used in future
- PC and CRR products used
- Precipitation products not locally verified yet some comparison to radar data and raingauges being done on caseto-case basis



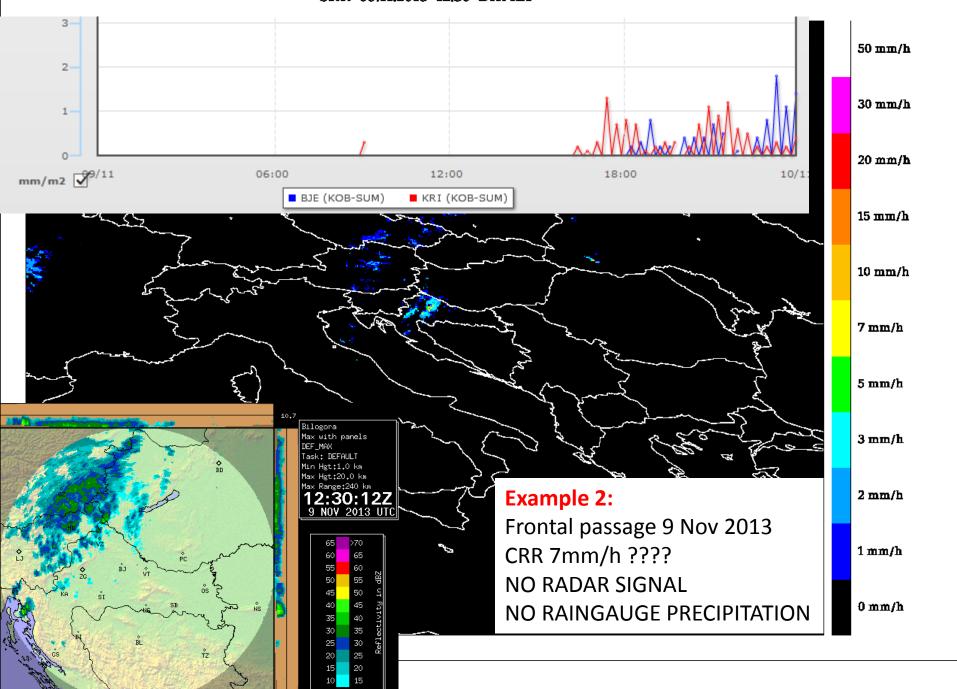


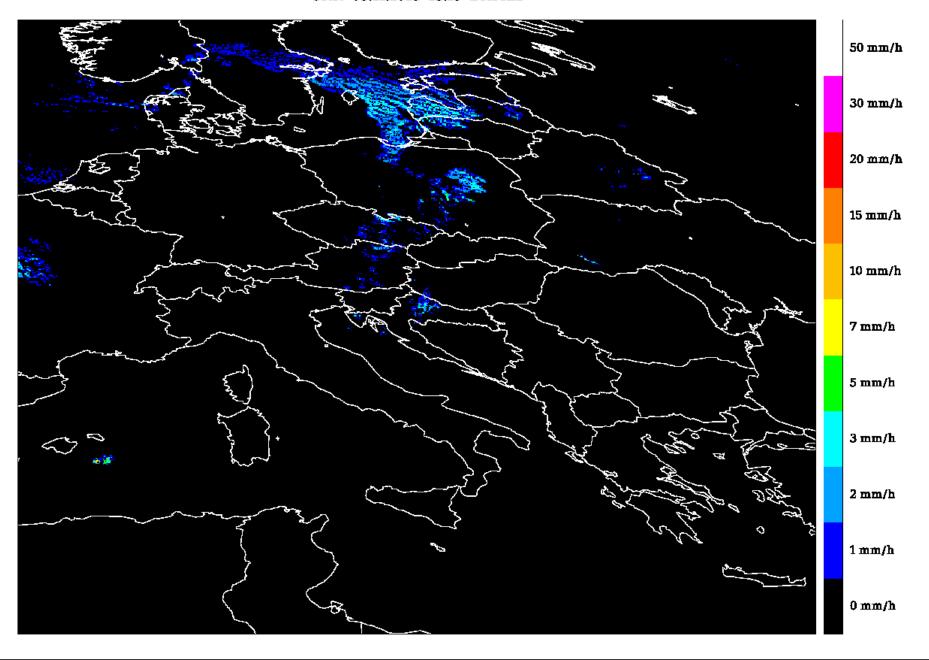


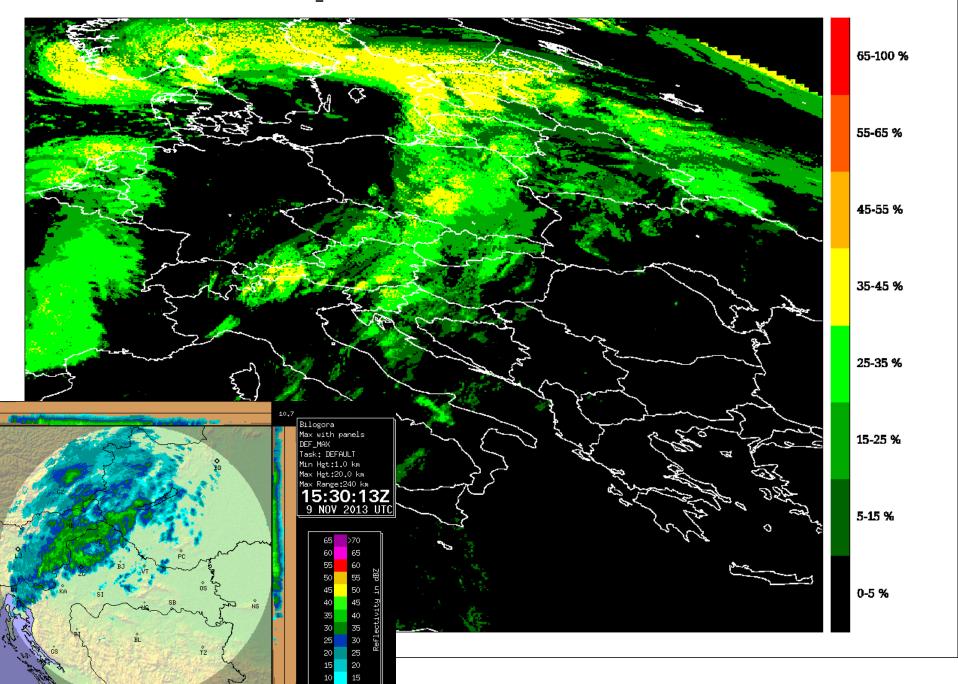


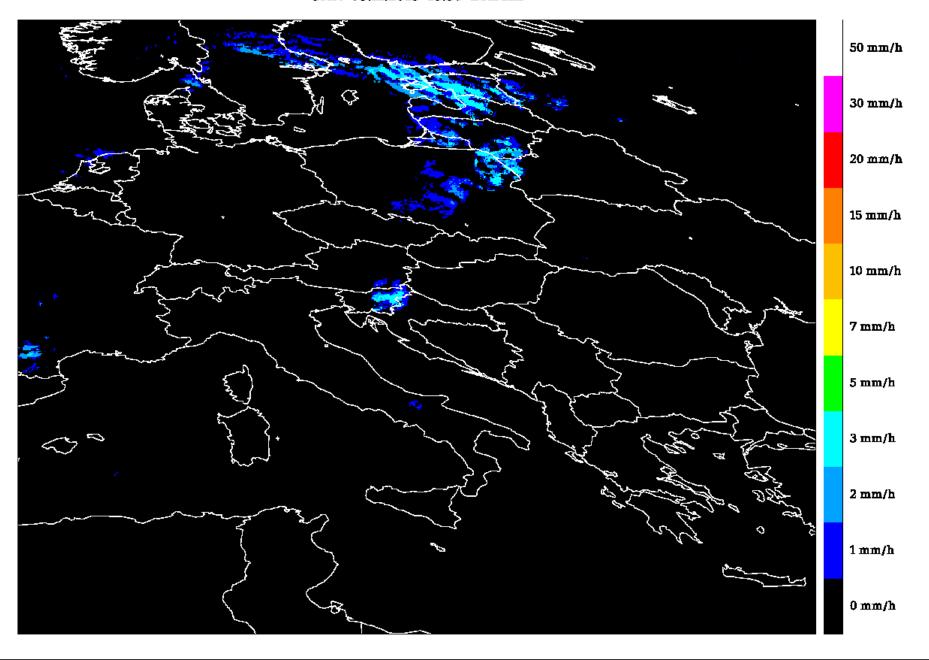


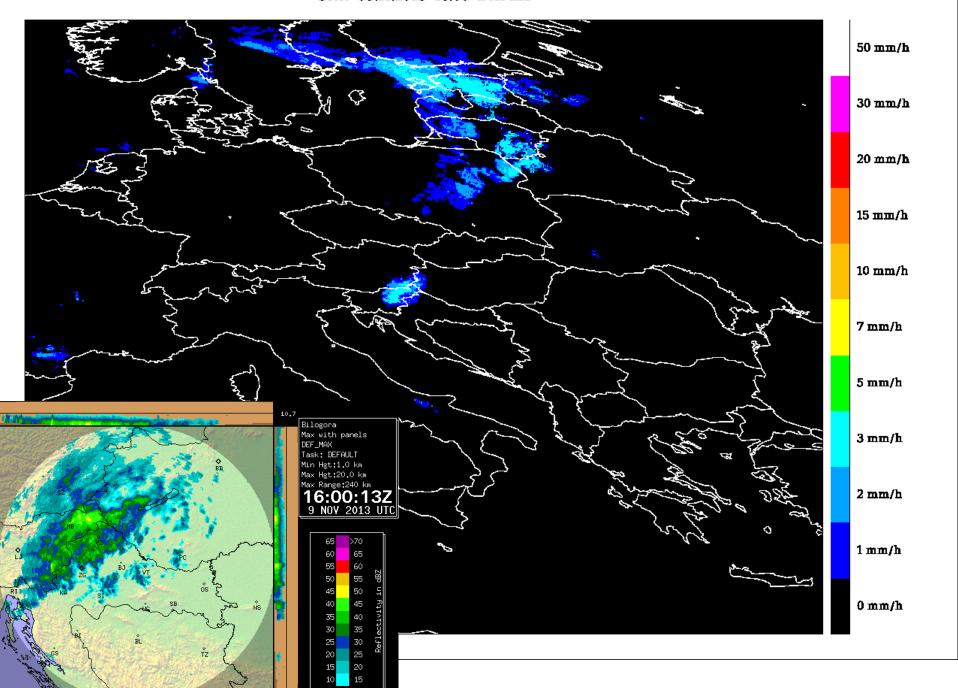
CRR 09.11.2013 12:30 DHMZ1









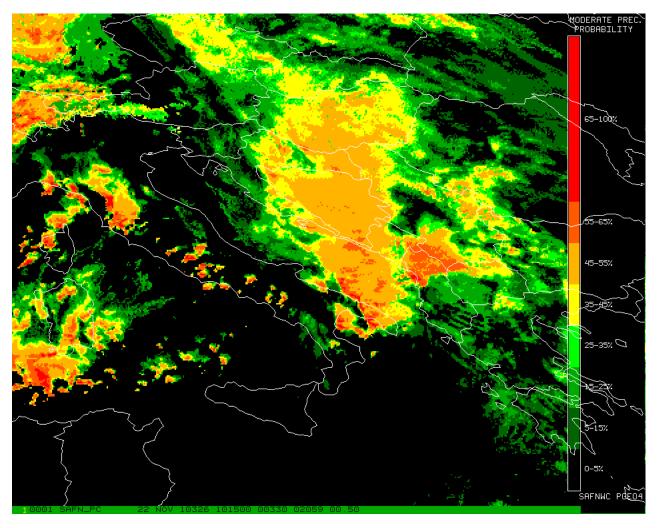




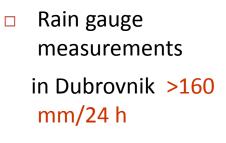
Dubrovnik flood 22-11-2010



- * Extreme precipitation case
- * No radar coverage at the coast and over the sea
- * Satelite products and raingauge data used for the analysis



Precipitating clouds – high precipitation probability



Peak intensities:

8,30

9,30

10,00

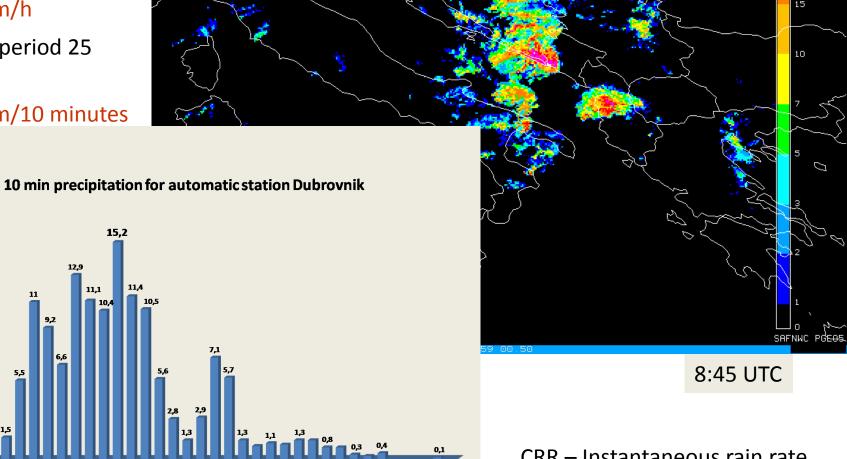
16

14

10 minute precipitation (mm)

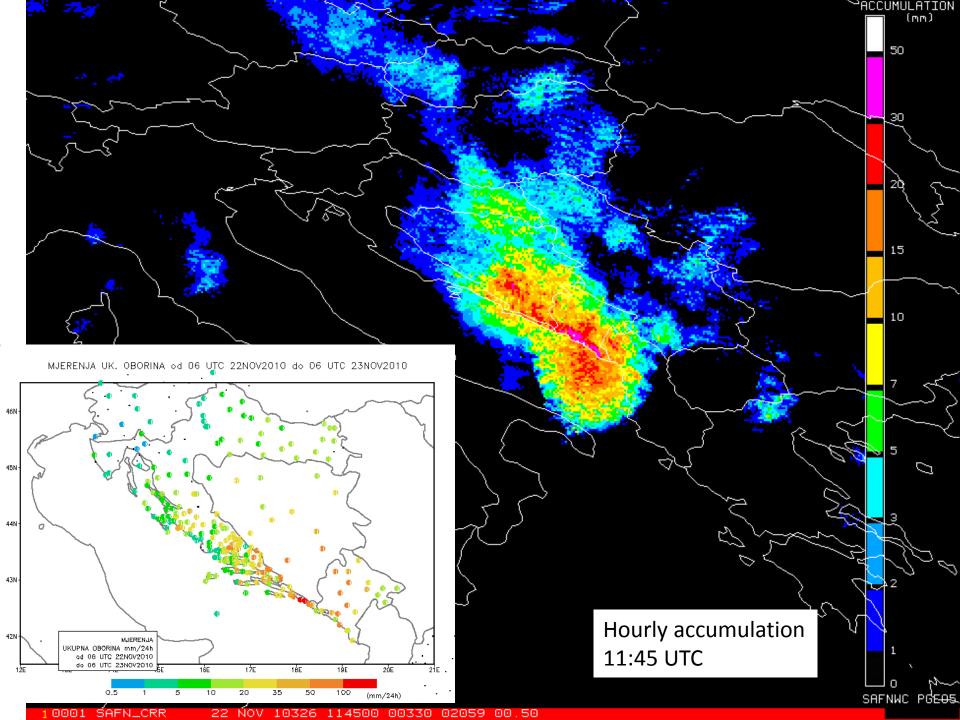
71.5 mm/h (return period 25 years)

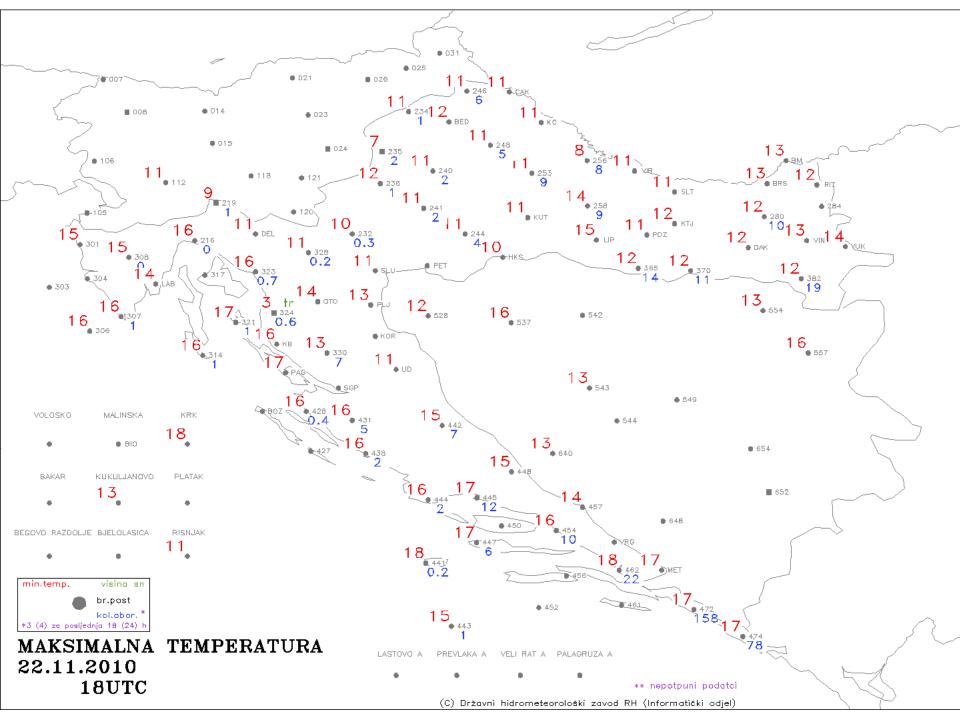
15.2 mm/10 minutes



11,30

11,00 22 November 2011 local time (UTC+1h) CRR – Instantaneous rain rate





Conclusion

- Product validation performed only on some cases
- Intensive precipitation well depicted
- Light precipitation some problems with calibration
- Occasional error detections needs to be tested
- Most important application of the products in the areas not covered by radar measurements! (Croatian Adriatic coast and mountain areas)







THANK YOU!

Questions, comments, suggestions?

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