

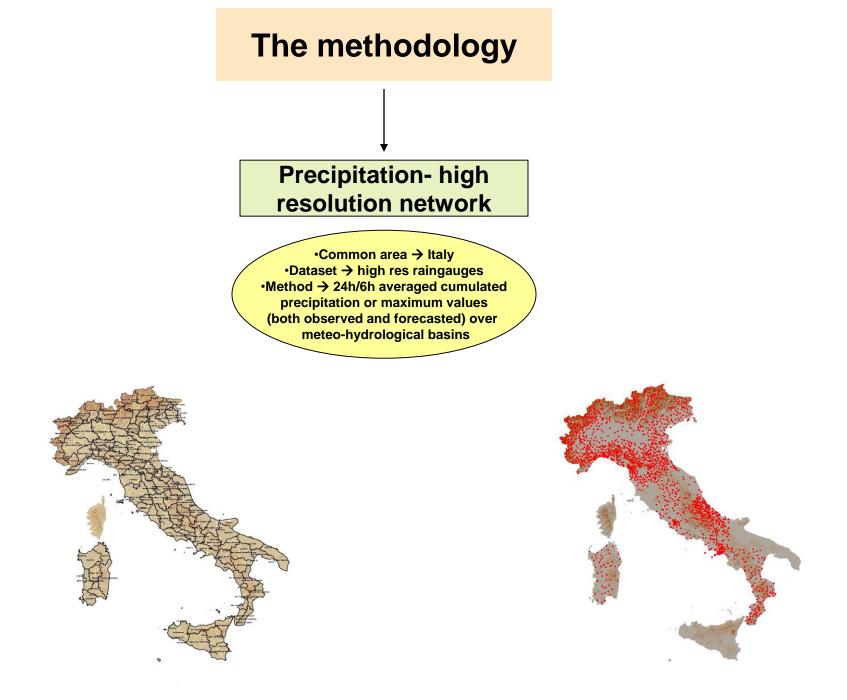
Overview of Italian verification

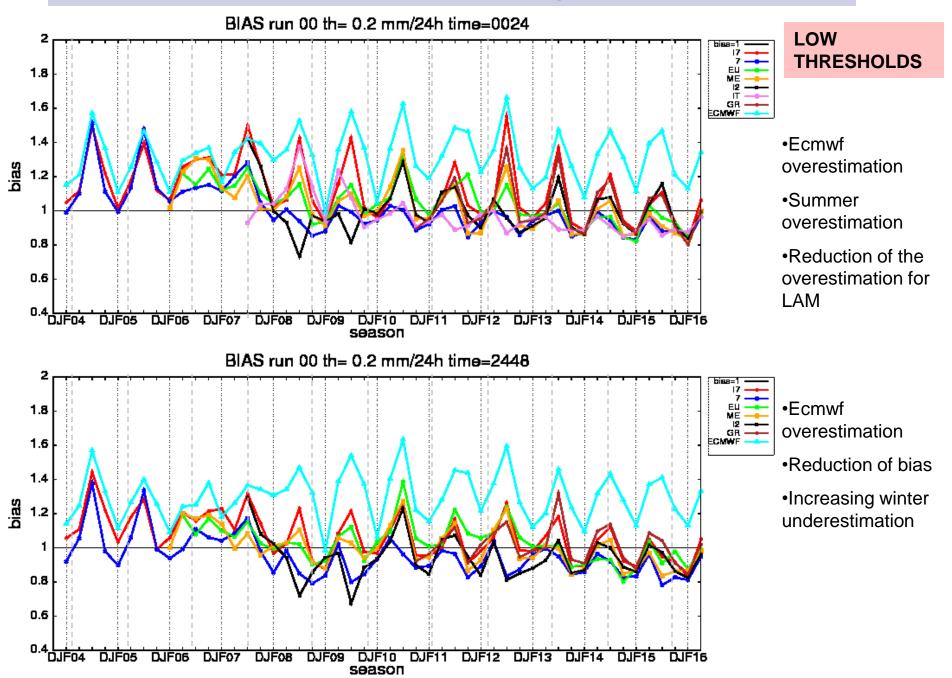
Naima Vela Elena Oberto This work has been done with the collaboration and the funds of Civil Protection Department. Furthermore thanks again to Civil Protection Department for making available the high resolution rain gauges dataset usefull for the verification tools.

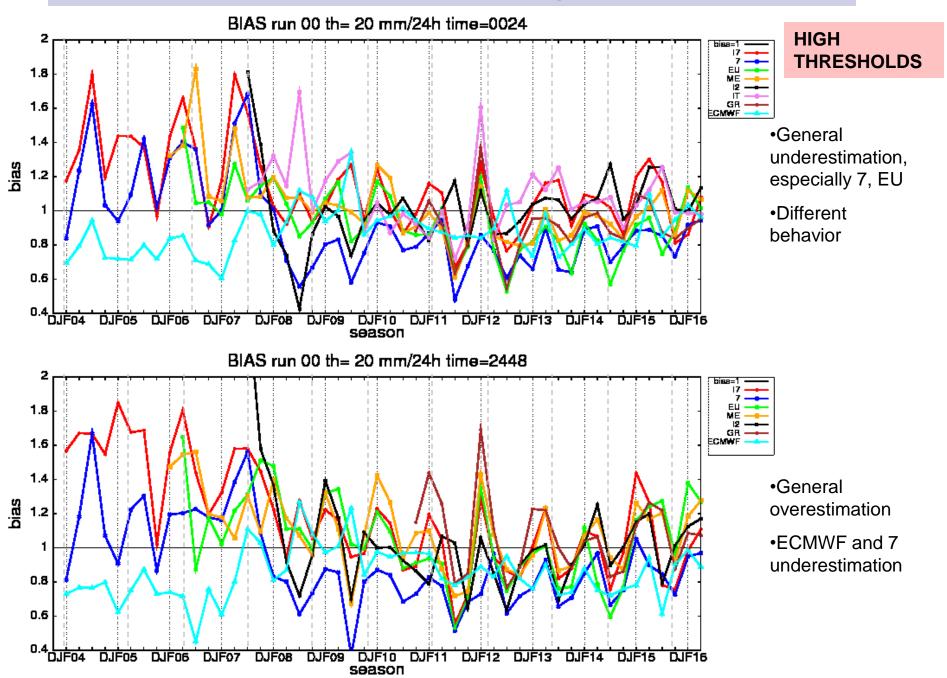
Cosmo General Meeting 2016 – Offenbach

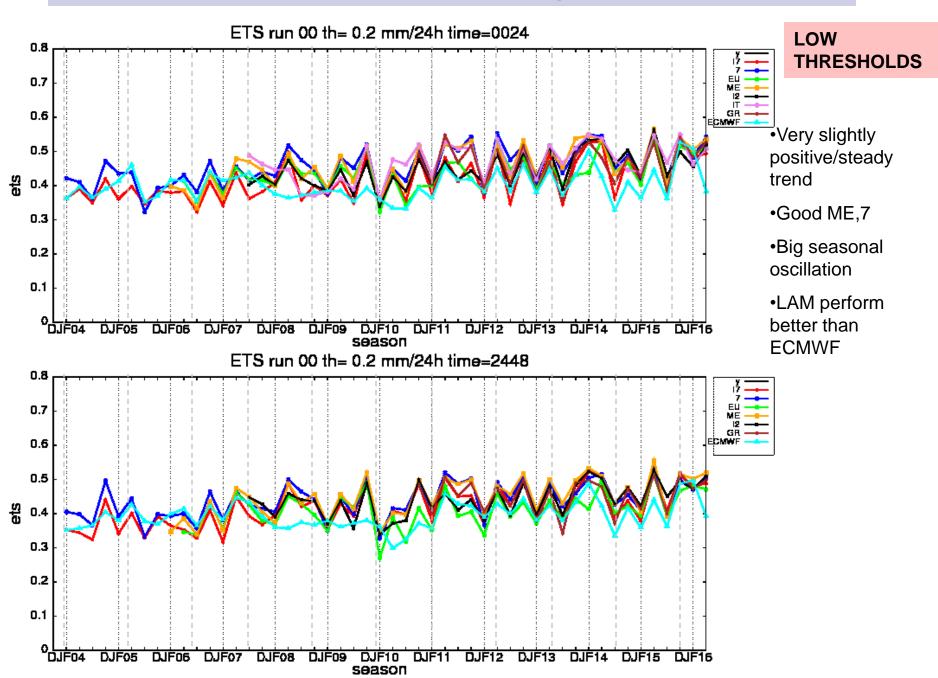


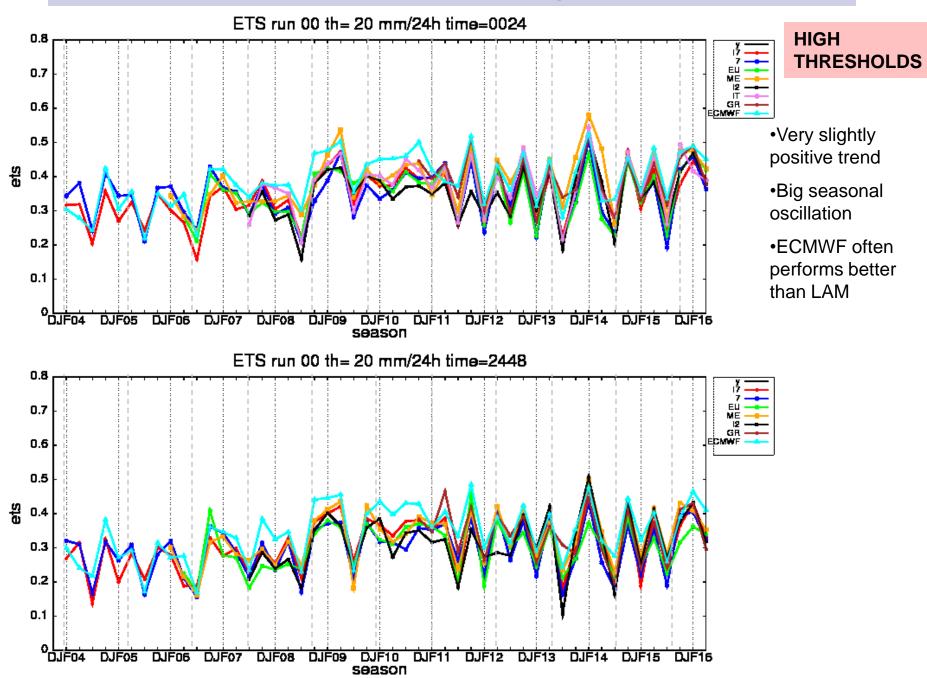




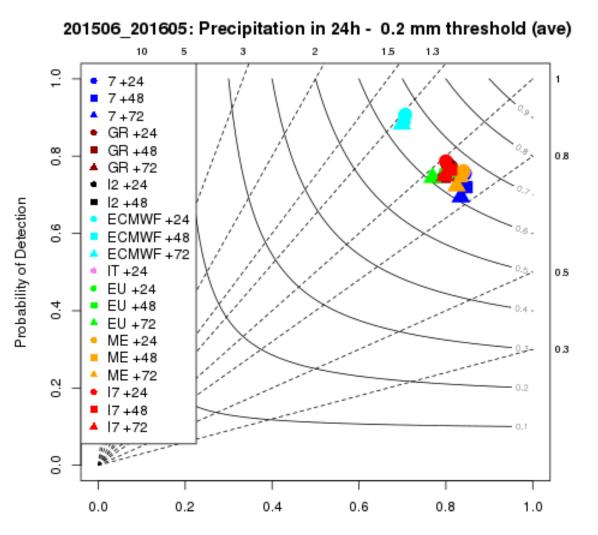






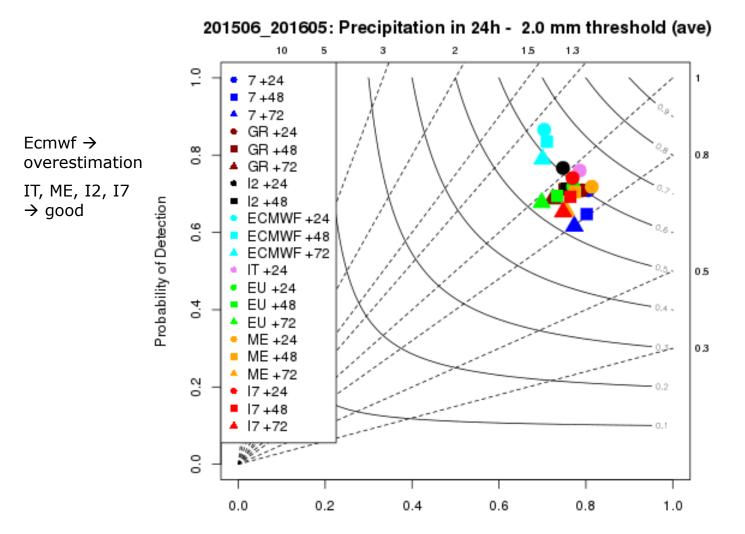


201506- 201605: Average over area > 0.2 mm/24h

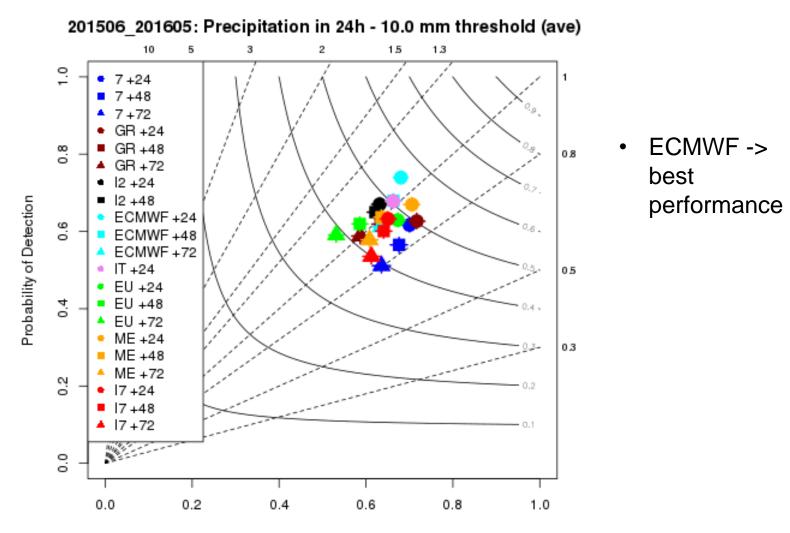


• ECMWF -> overestimation

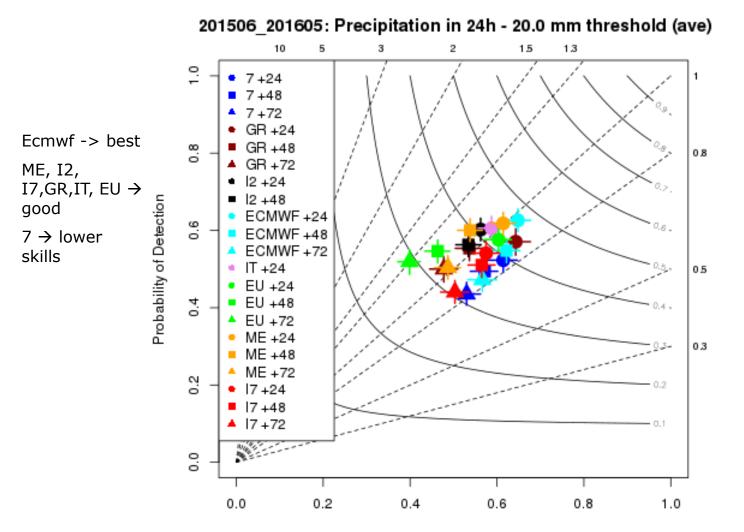
201506- 201605: Average over area > 2 mm/24h



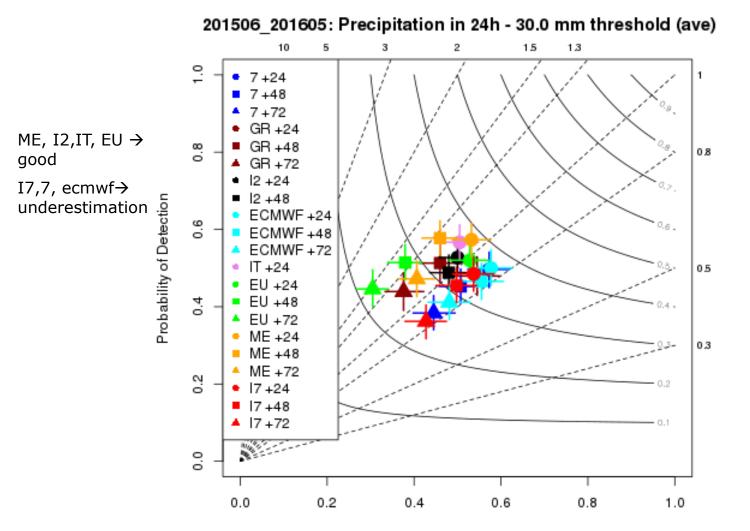
201506- 201605: Average over area > 10 mm/24h



201506- 201605: Average over area > 20 mm/24h

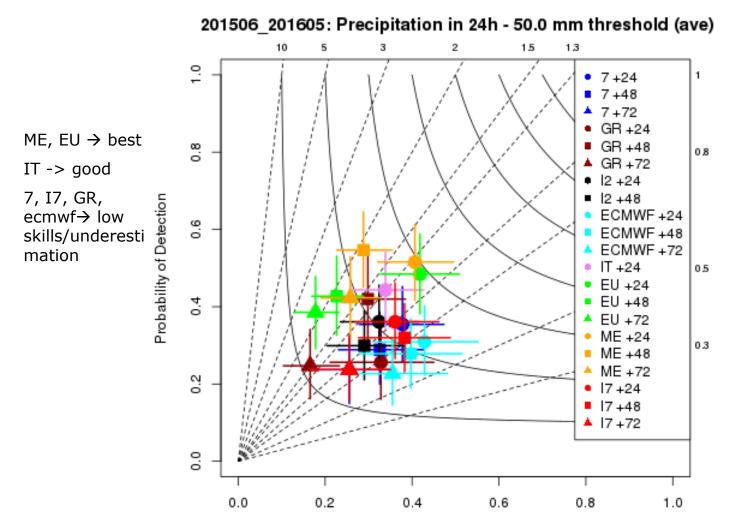


201506- 201605: Average over area > 30 mm/24h

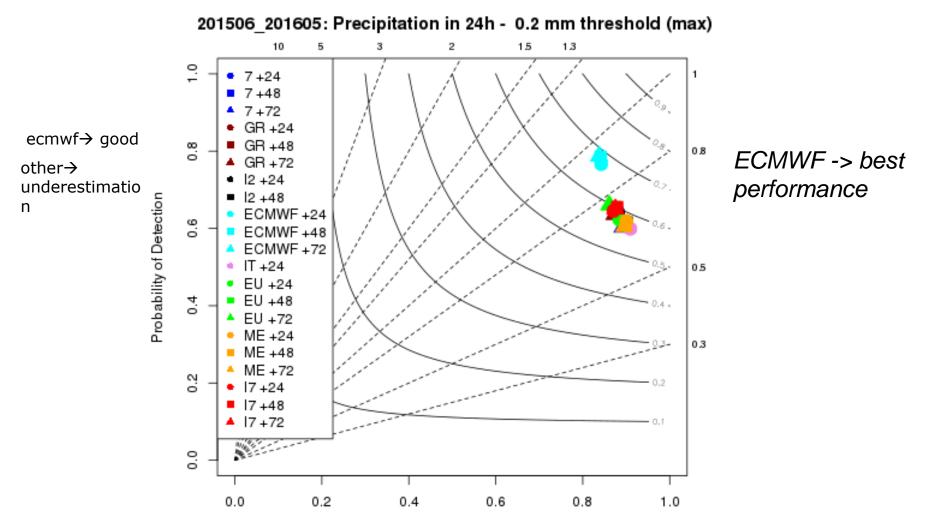


Success Ratio

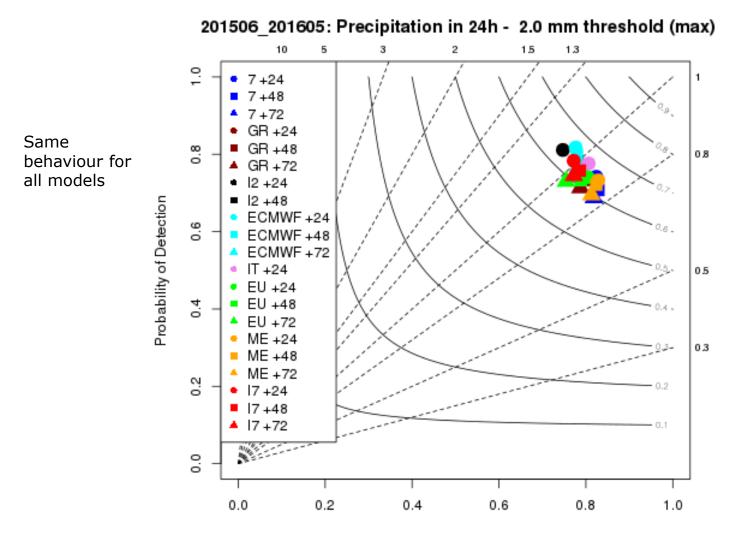
201506- 201605: Average over area > 50 mm/24h



201506-201605: Maximum over area > 0.2 mm/24h

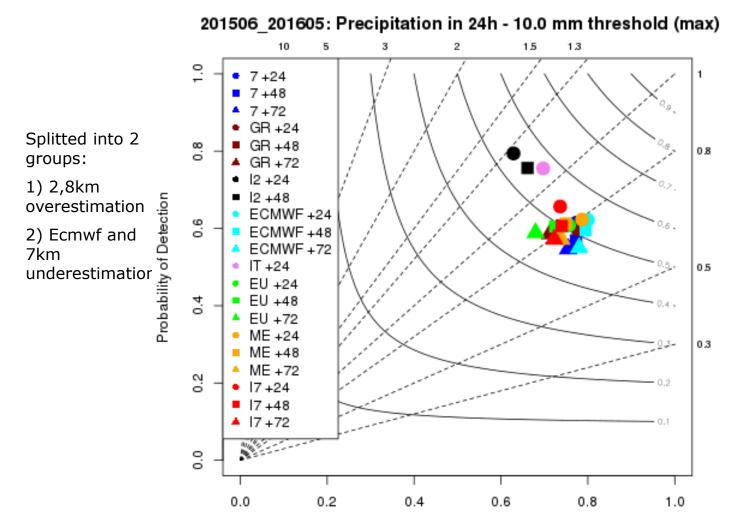


201506-201605: Maximum over area > 2 mm/24h

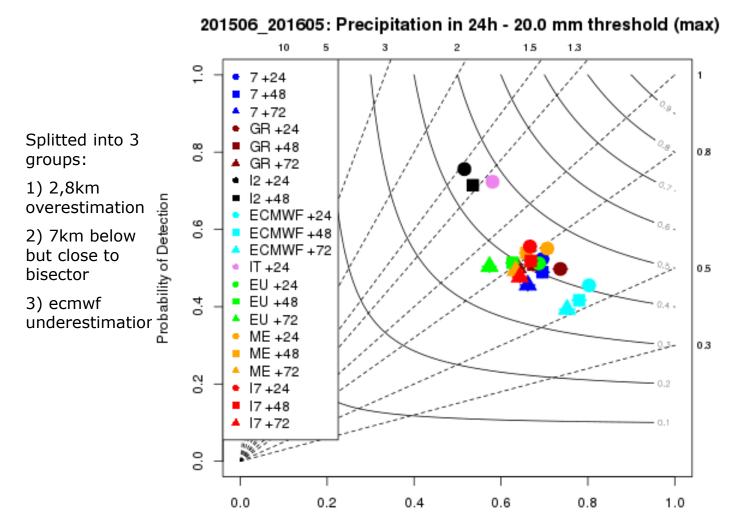


Success Ratio

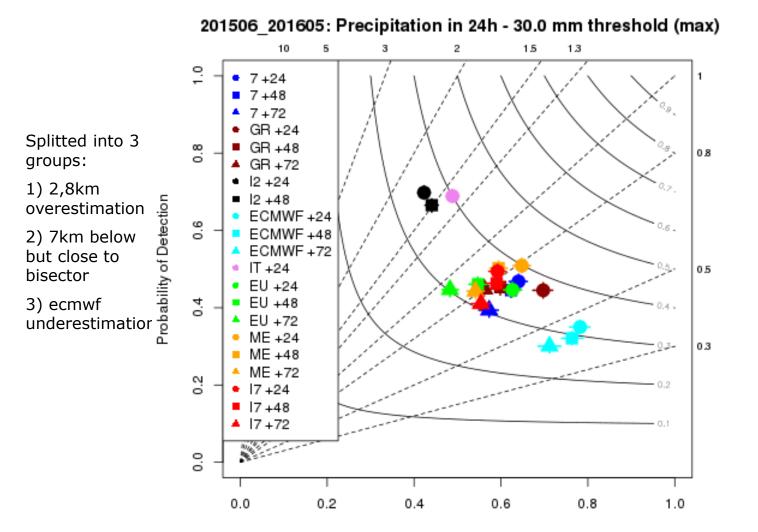
201506-201605: Maximum over area > 10 mm/24h



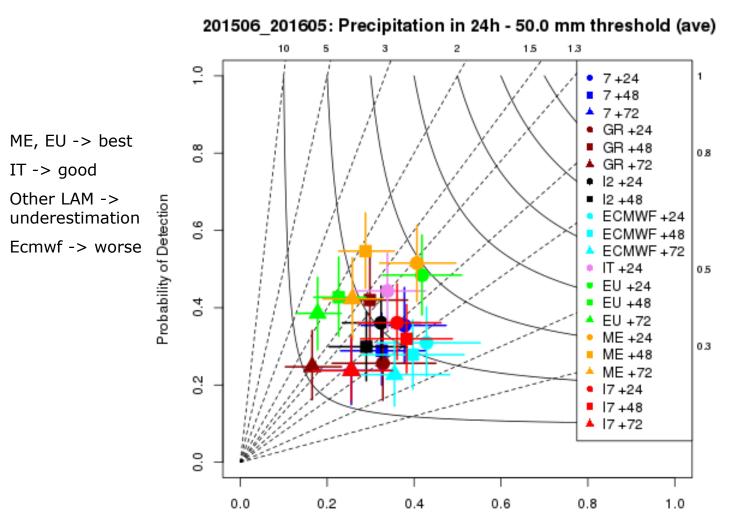
201506-201605: Maximum over area > 20 mm/24h

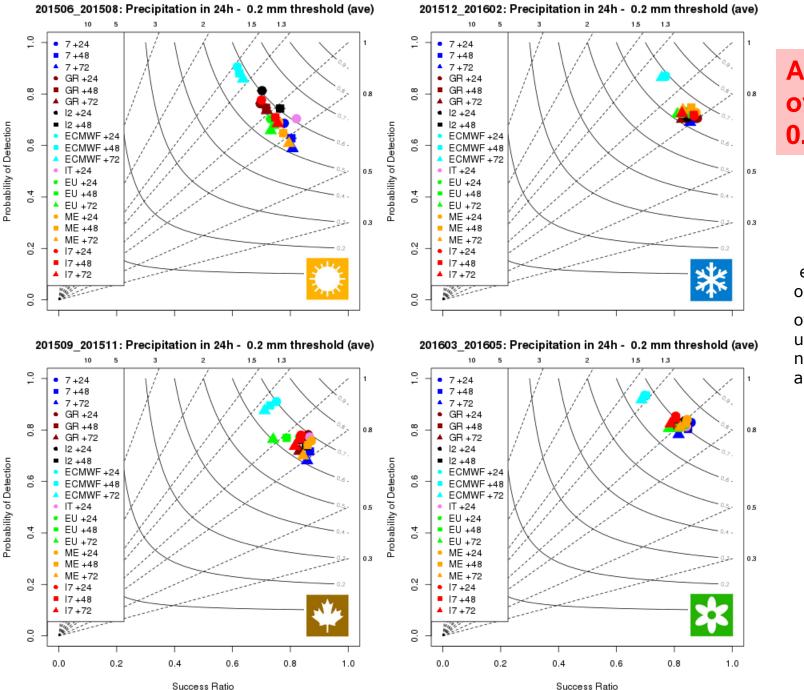


201506-201605: Maximum over area > 30 mm/24h



201306-201406: Maximum over area > 50 mm/24h

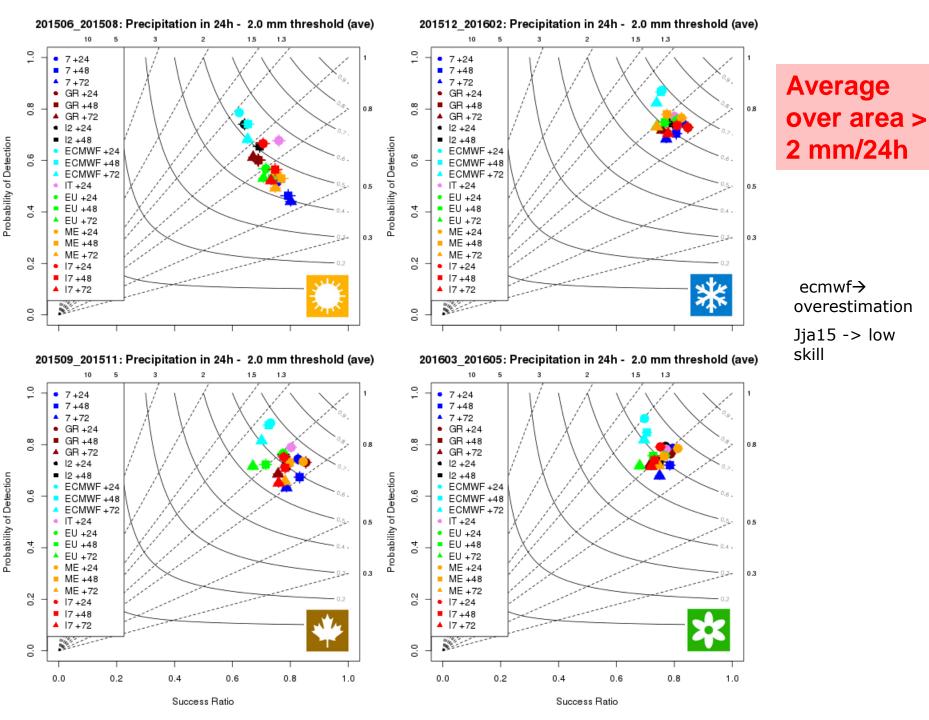


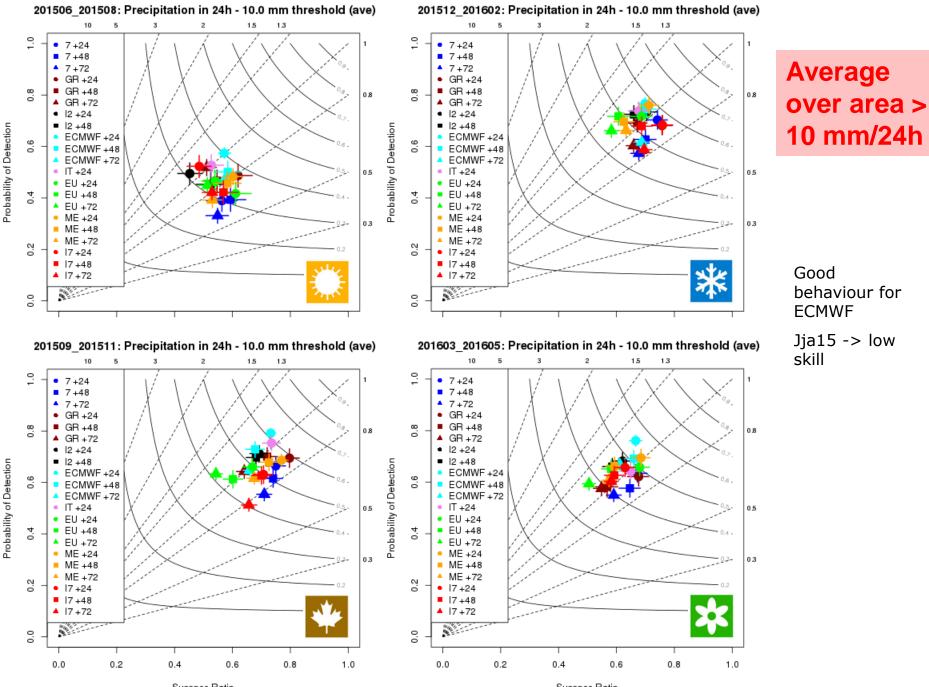


Average over area > 0.2 mm/24h

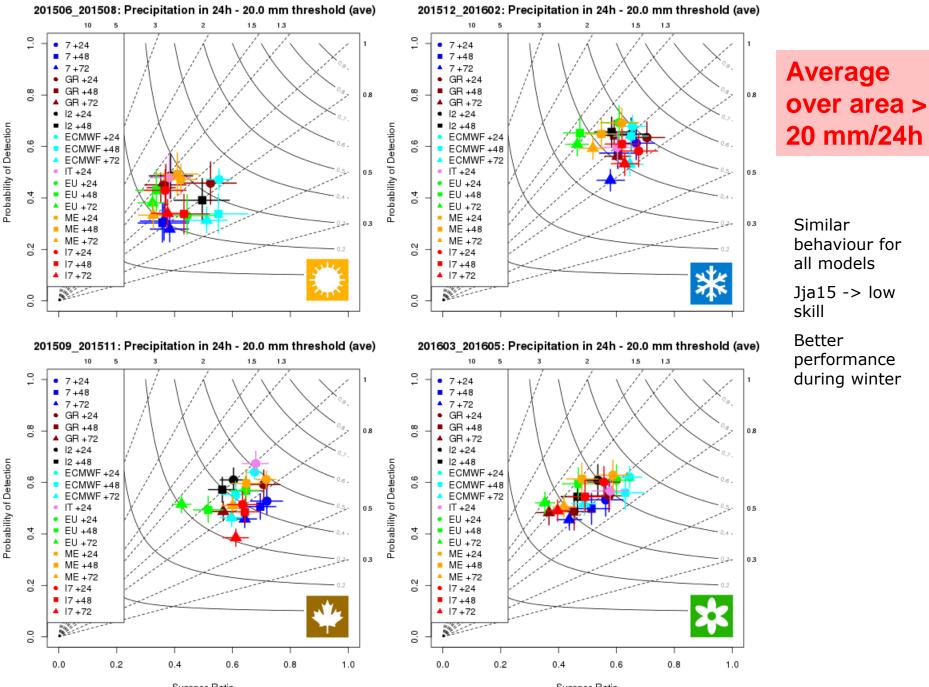
ecmwf→ overestimation

other→ underestimatio n for SON15 and DJF16

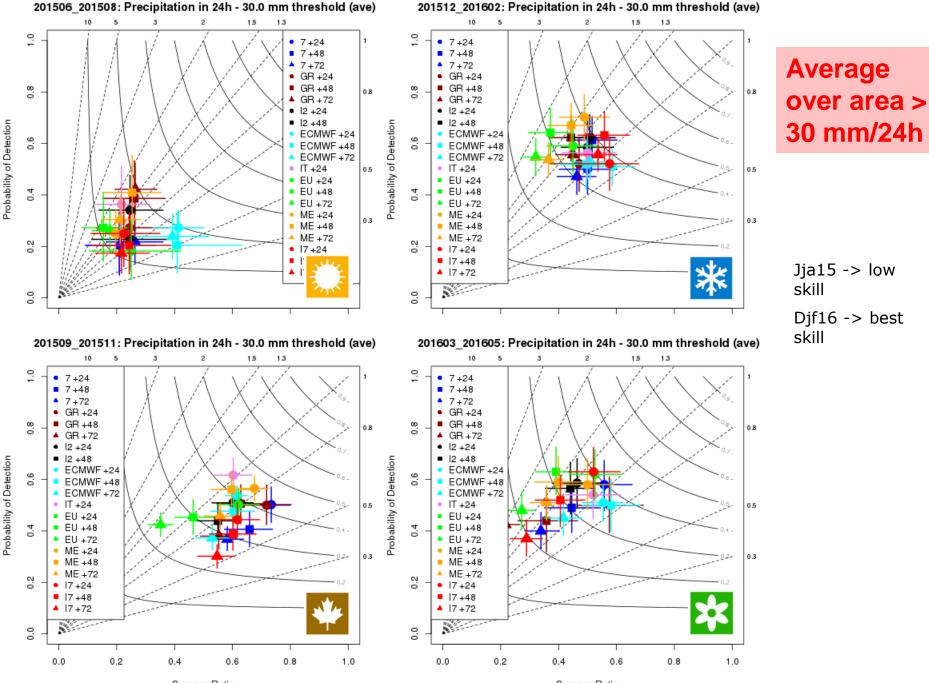




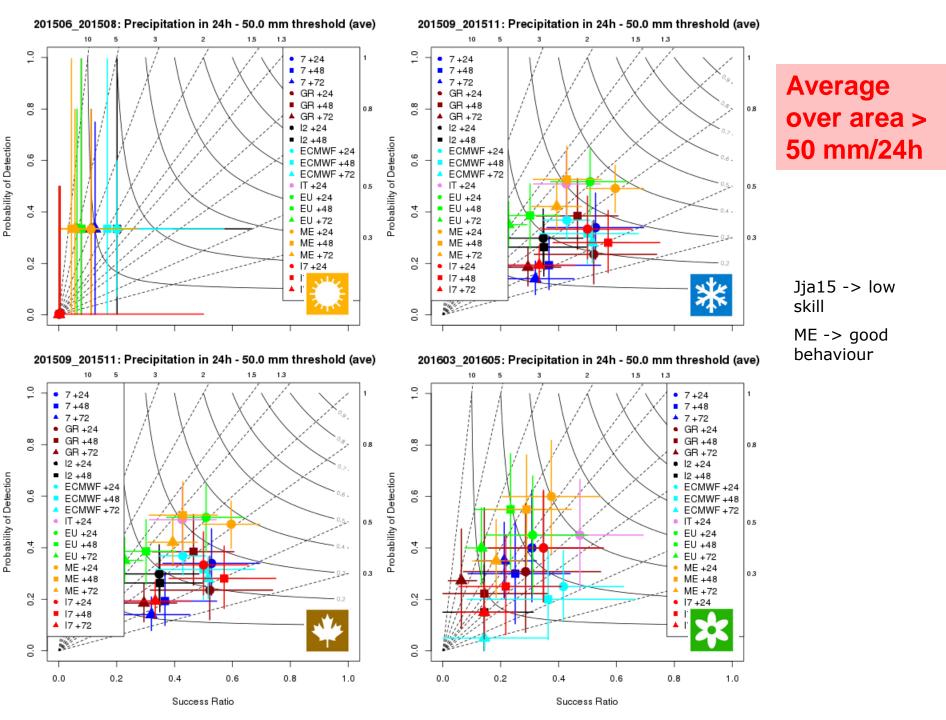
Success Ratio

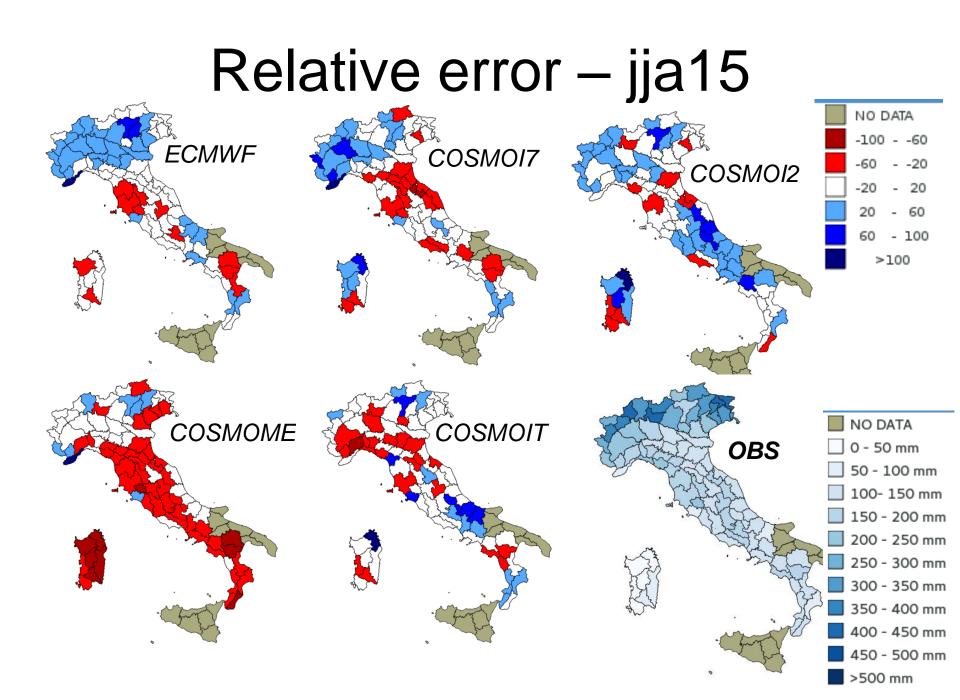


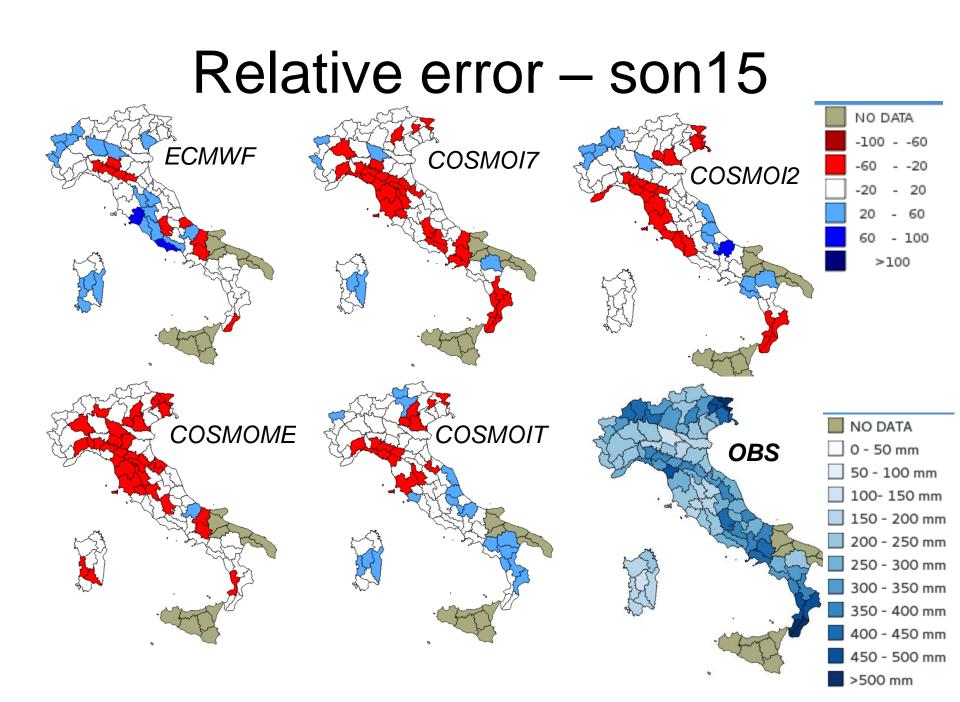
Success Ratio

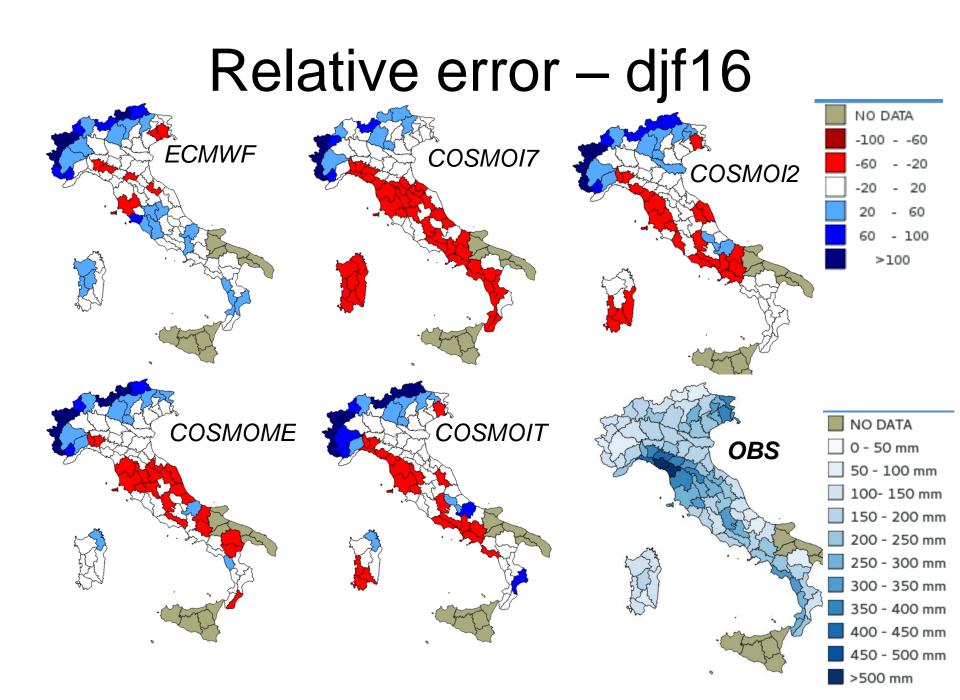


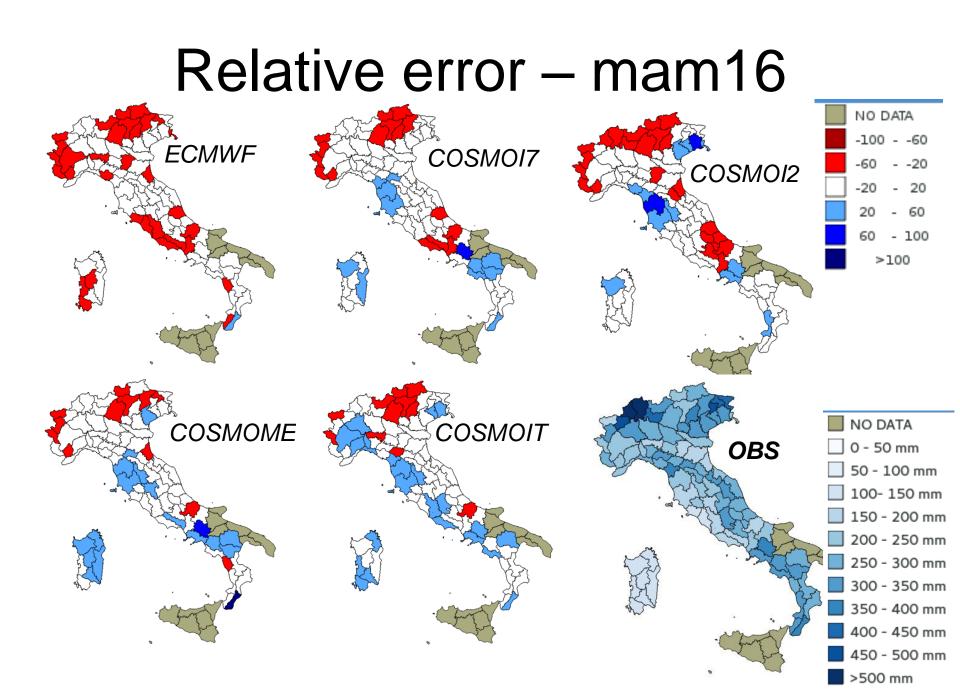
Success Ratio



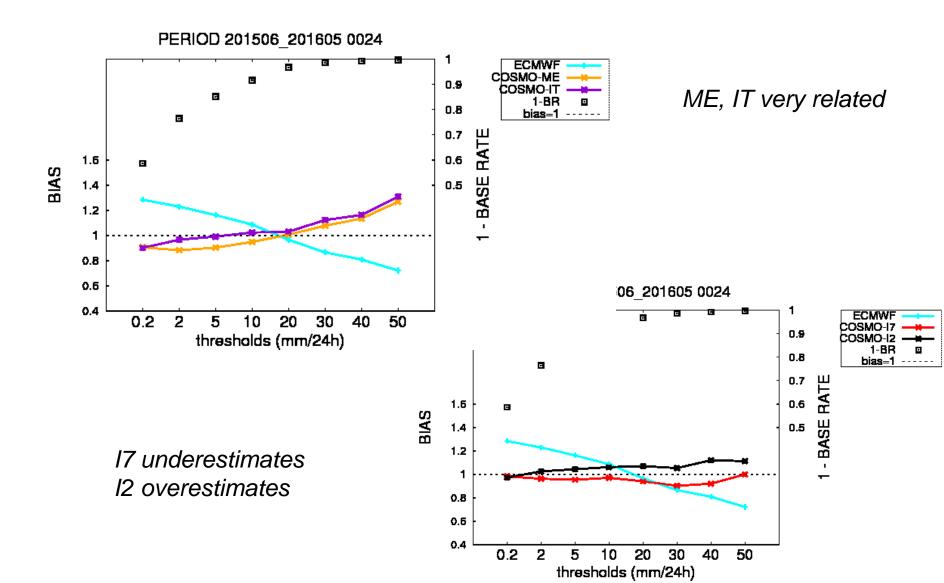




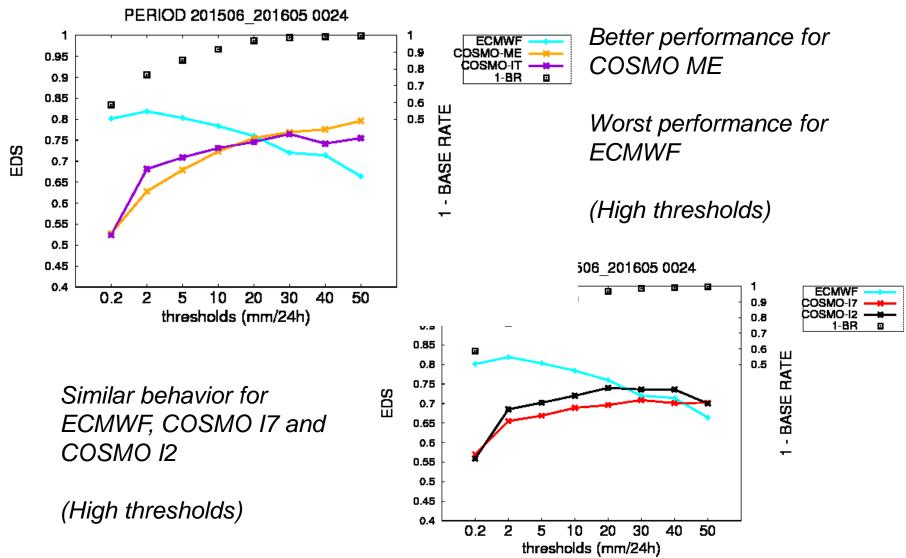




BIAS – ITALIAN MODELS



EDS (Extreme Dependency Score)– ITALIAN MODELS



THANK YOU FOR YOUR ATTENTION!