NWP Test suite: Verification reports

- ✓ Labor intensive in preparation
- ✓ currently report is expanded to higher and coarser resolution comparison for both seasons making the comparison more challenging
- ✓ Direct feedback is hard to be extracted by reviewer (FG) or reader
- ✓ Quite long in size (>30 pages)
- ✓ Restrictions: VERSUS software capabilities
- ✓ Required number differences to be prepared and represented externally

Propositions from SPM for the report content

- Add more numerical form in the representation of scores in addition to the graphical ones
- Statistical significance of the comparison results (as differences are marginal)
- Possibility to add a unified score (combining the performance of various parameters
- Group upper air verification on one graph

Develop the tool for convective-scale applications

NWP Test suite: Scorecard

- can summarize a large amount of information on differences between the two model versions in a more comprehensive and compact way

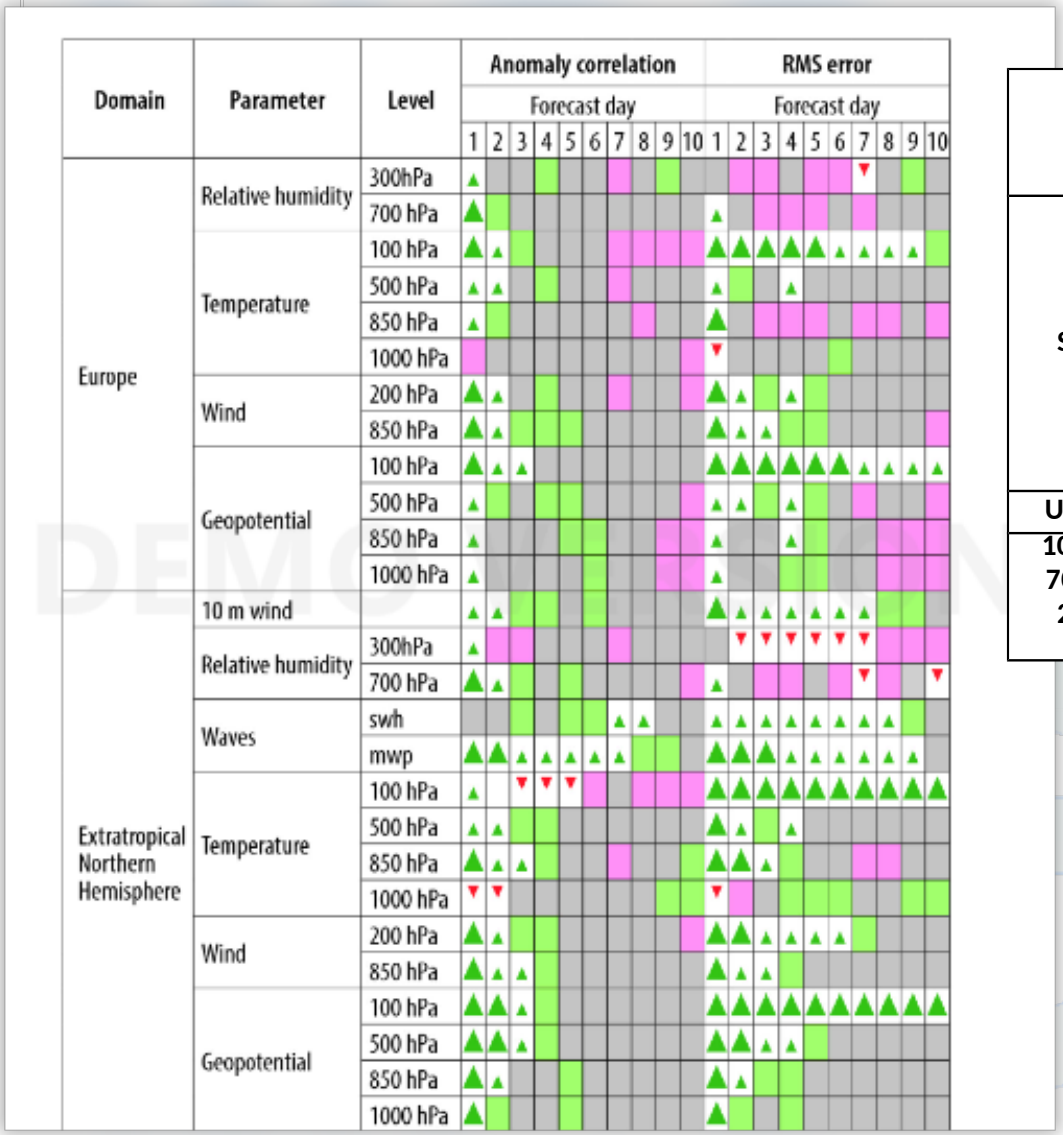
- can include upper-air and surface skill verified against both analyses and observations for different pressure levels and domains, for all forecast ranges (day1-3)

- ideally can give an indication of the significance of these differences (not straight forward in VERSUS)

- statistics on a station stratification can be added

- ECMWF scorecard protoype could be followed in a more simplified manner and on top of the complete graphical representation of scores (cross model graphs)

NWP Test suite: Scorecard



	Parameters	Scores	Forecast day	Confidence Intervals
Surface	10m wind sp	RMSE BIAS ACC	1,2,3	?
	2mT			
	DewP temp			
	TCC			
	MSLP			
	Precipitation	FBI, ETS, SEEPS		
	6h/24h			
Upper air	geopotential	ACC RMSE		
1000,850, 700, 500, 200hPa	RH			
	Wind			
	Temp