

ALADIN in Poland
- recent operational
and R&D activities

EWGLAM/SRNWP – Madrid 2008

ALADIN at IMWM - resources

- *team - 5-6 people*
 - *main available hardware -*
 - *supercomputer ALTIX 3700*
16 Itanium2 CPU's / 32 GB RAM
(32 CPU's at ALTIX 4700 expected
also 16 CPU's cluster)
 - *coupling transfer -*
Internet / practical transfer rate - 2Mb/s
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ALADIN at IMWM – operational suite

- *domain - 2270 km x 2270 km*
 - *grid size - 169 x 169 x 31*
(without coupling zone)
 - *resolution - 13.5 km*
(10.0 km – still pre-operational)
 - *time-step - 600 sec.*
 - *range – 54h*
 - *coupling - ARPEGE, 3h*
 - *runs - 2 per day*
 - *post-processing - 4 domains*
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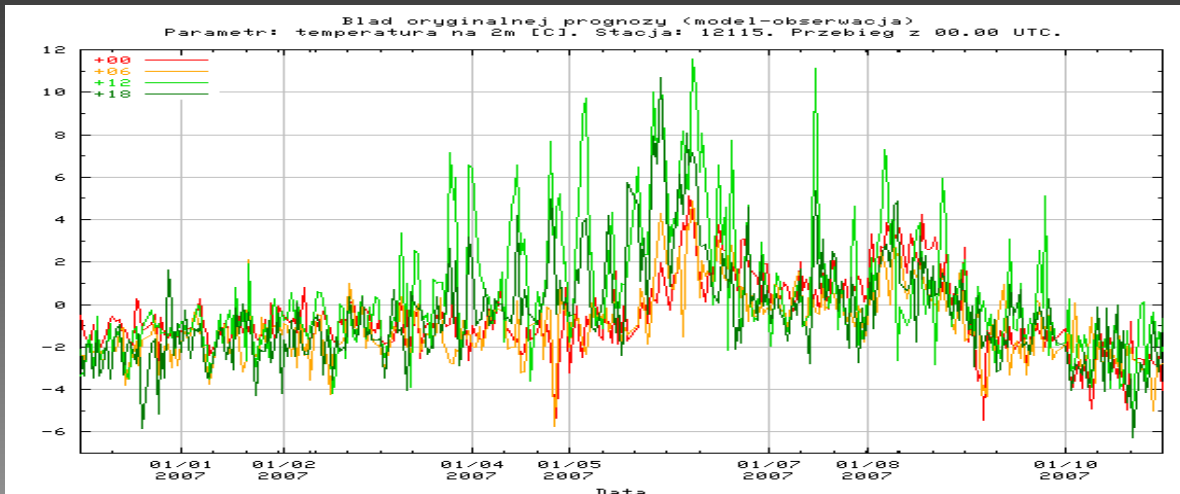
ALADIN at IMWM – R&D activities

- *Fields of interest:*
 - ✓ *high-resolution forecast verification*
 - ✓ *forecast scaling / adaptation*
 - (*e.g. development of robust D-MOS*)
 - ✓ *microphysics parameterization*
 - ✓ *VFE discretization*
 - *Future plans:*
 - ✓ *high-resolution prediction with AROME*
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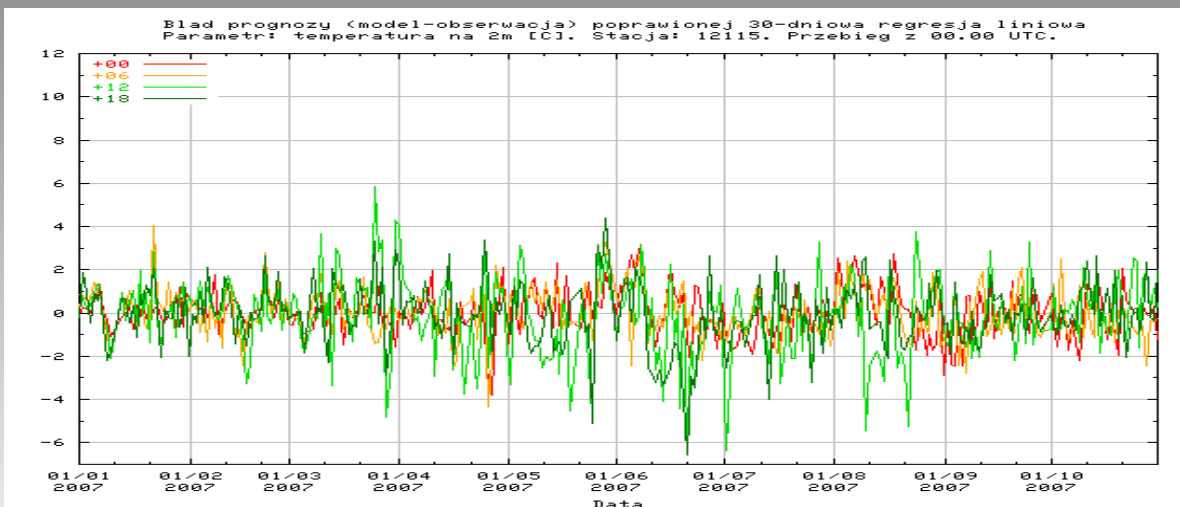
ALADIN at IMWM – high-resolution verification

- *Main directions:*
 - ✓ *developements in joint fuzzy and patern recognition attitude to verification*
 - ✓ *application of robust statistics to forecast verification*
 - ✓ *developments in scale separation for precipitation field analysis*
 - ✓ *studies in comparision and evaluation of NWP models based on various scores, methods and data*
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ALADIN at IMWM – D-MOS



*Upper figure –
temperature forecast
error for Ustka synoptic
station*



*Lower figure –
D-MOS corrected
temperature forecast
error for the same station*