



Israel Meteorological Service 2009-2010

report on progress & challenges

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progress & challenges 2009-2010

Numerical Processing

- A new numerical computer: ~350 processors, SGI
- Operational run expected towards 2010 spring
- Expected outcomes: 2 LAM for the Eastern Mediterranean, Data assimilation, Regional Climate model runs, Nowcasting system



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Research

- New researchers – Nowcasting, Radar, Climate & Seasonal forecasting, GIS, Agrometeorology
- Experimental runs of WRF (NCAR) LAM
- Validation of global & regional models, MOS
- New seasonal (statistical) model
- Joint research with Jerusalem University – Flash Flooding in the Judea Desert (RADAR, Hydrology)
- Research on automatic weather detection
- Research on MLH detection using lidar-ceilometer
- Climate change studies in Israel



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WMO #258

- Since 2006 – new forecasters: only Atmospheric Science B.Sc.+
- Current stuff with Geography B.A./M.A. : a series of courses in physical atmospheric science:
 - Thermal Physics & Cloud microphysics
 - Atmospheric Optics & Remote sensing
 - Introduction to Dynamical Meteorology
 - Mesometeorology & Modern Forecasting
- Each course: 80 hours (once a week, 16 weeks)



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Aeronautical Meteorology

- Beginning of an Israeli AMDAR program
- ISO 9001 certification: the entire IMS is supposed to achieve certification till 2011 spring.
- Service provider vs. Meteorological Authority – still in debate within the ministry of transport.
- Cost recovery mechanism – still in debate.
- Weather detection, Wind shear warnings, Nowcasting – in research



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AgroMeteorology

- RMTC courses – desertification, draught & climate change
- Topo-climate mapping using WRF LAM + MSG + surface measurements
- Evapotranspiration forecasting

Meteorology & Health

- Establishment of national heat-wave warning system (with the ministry of health)



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Marine Meteorology

- WAM & SWAN models
- Two new VOS (Mediterranean tracks only)
- Improved buoy near Haifa port



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