

Preliminary results on using hyperspectral
data in stability analyses

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Demonstration

- Croatia (DHMZ) to be included in the demonstration projects
- The objective of the demonstration:
testing the applicability of Level 2 IRS data
for the nowcasting purposes

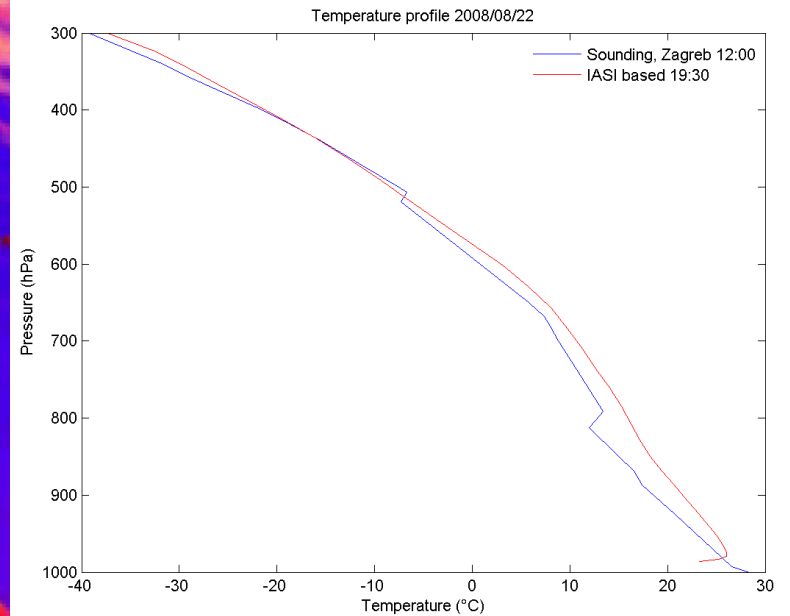
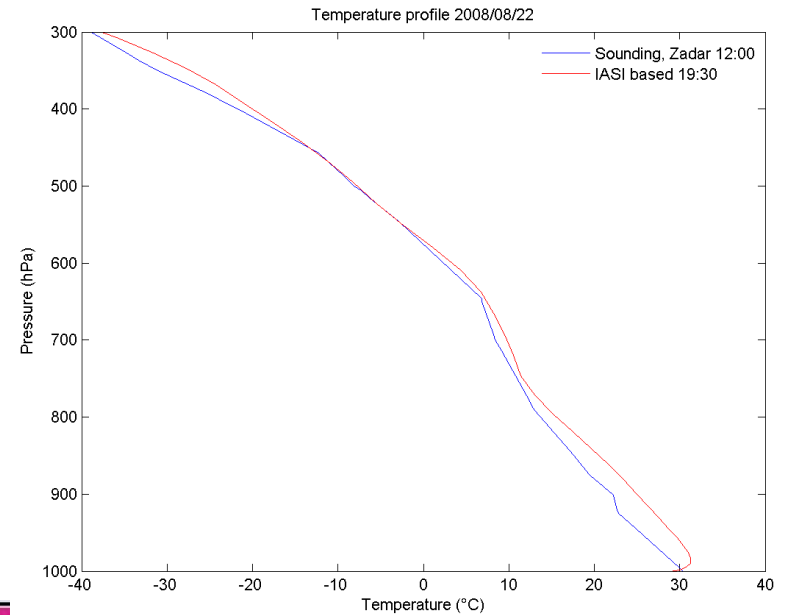
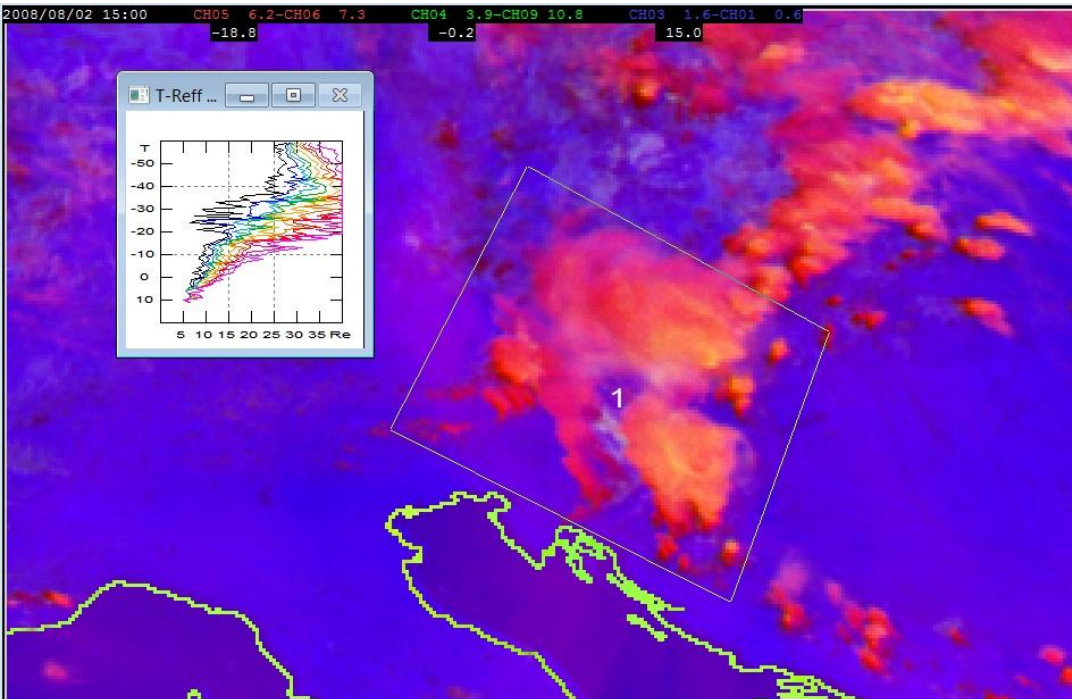


MTG IRS Level 2 data

- Profiles of temperature and humidity
- High spatial and temporal resolution
- Retrievals based on radiative transfer model
- ECMWF model data used for background profiles

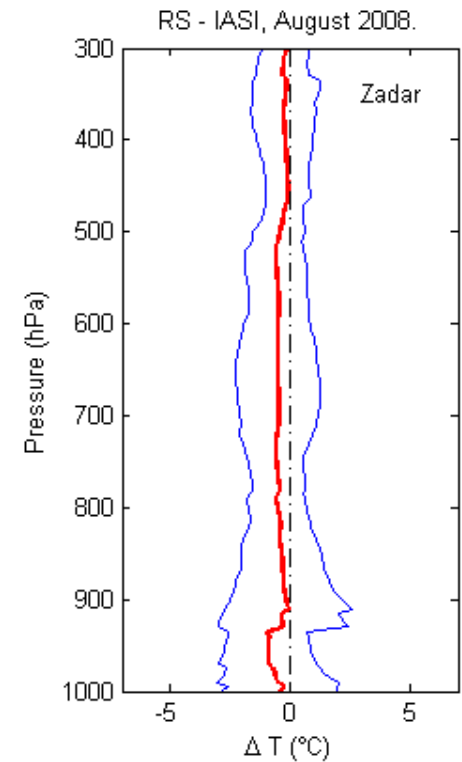
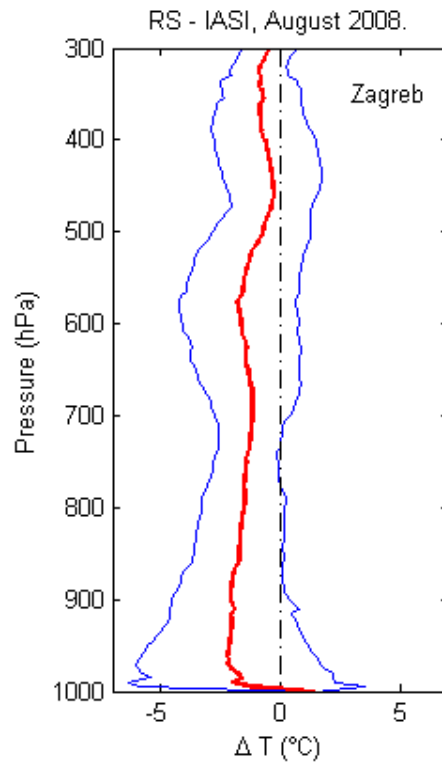
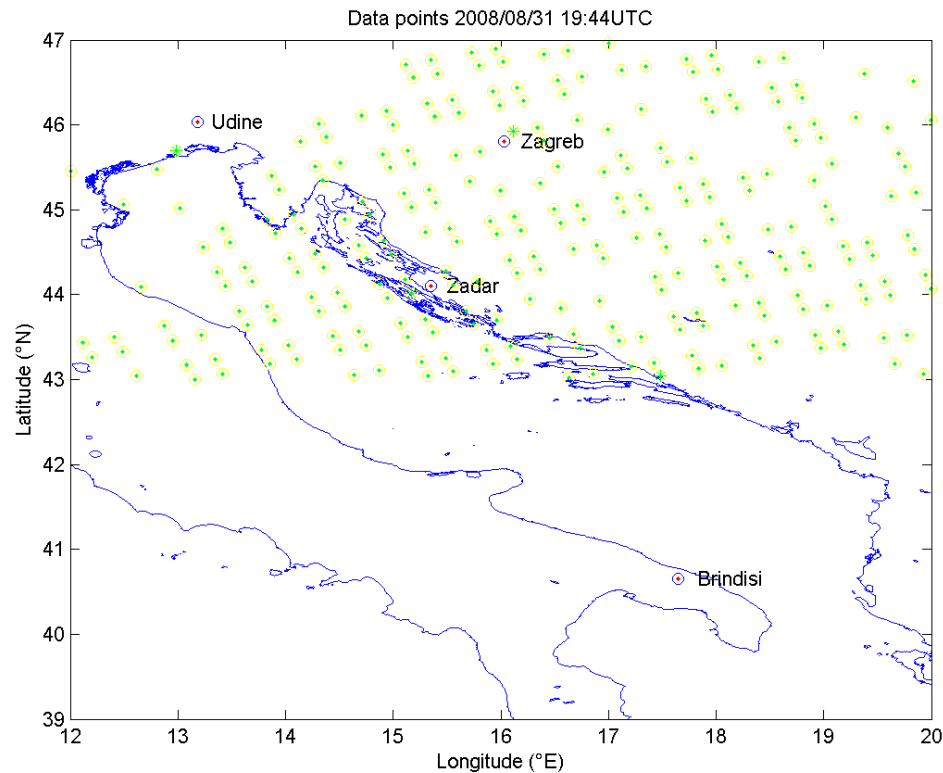
Example: 22. August 2008.

- Convection (~15 UTC)
- Radiosounding (12:00 UTC)
- IASI (19:30 UTC)



Some testing already performed...

- August 2008.
- Radiosounding compared to IASI based data



Planned activities

- Verification of the IASI profiles in comparison to:
 - Radiosounding profiles
 - Aladin model profiles
 - Airplane measurements
 - Bias correction
 - Identification of different cases
 - Instability indices
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