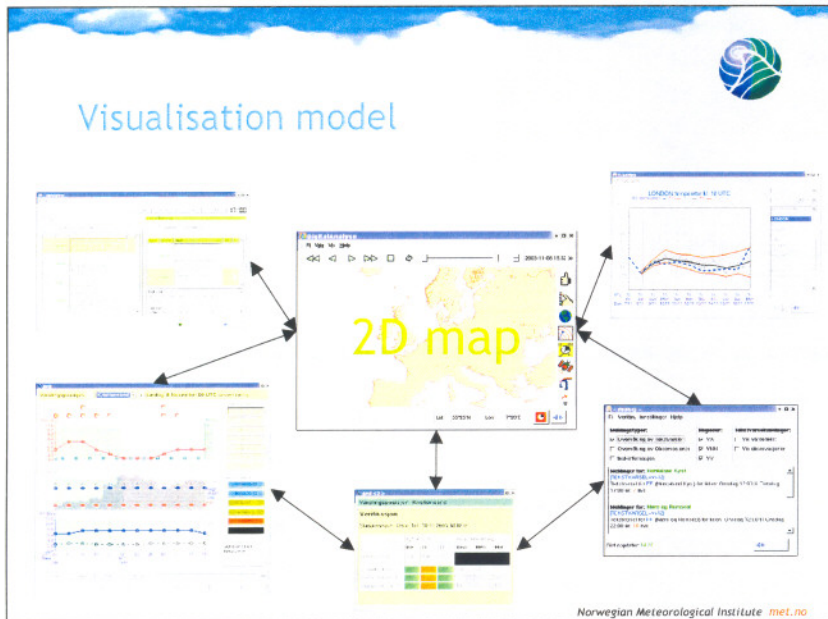


Operational visualisation systems at met.no

Audun Christoffersen and Eivind Martinsen, Norwegian Meteorological Institute (met.no)

Overview

- Development of visualisation systems at met.no
- DIANA-Production tools and uses in connection with other data views



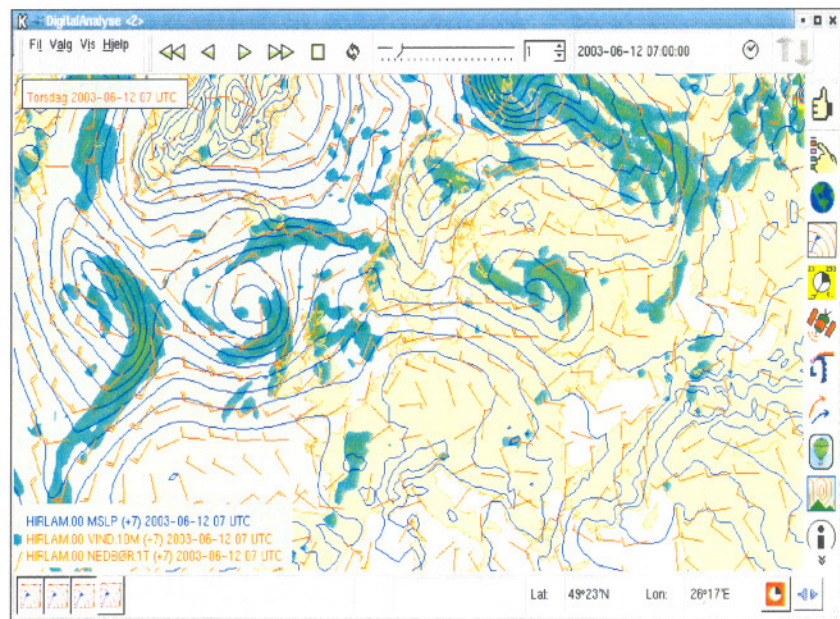
Technical Standards

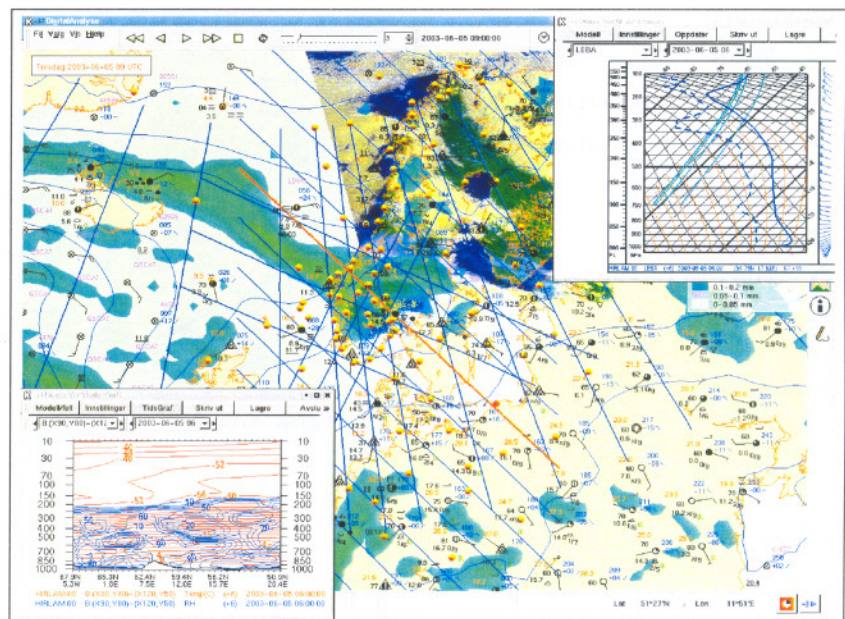
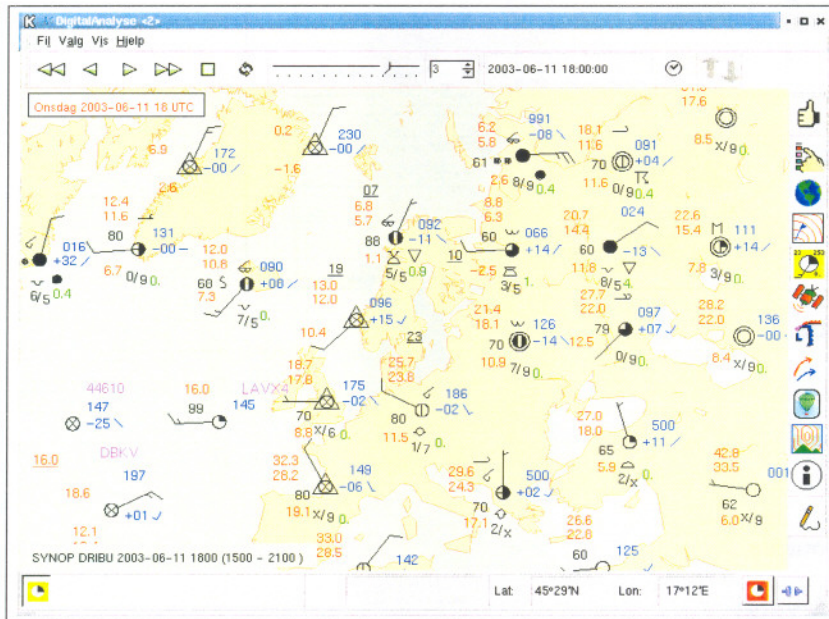
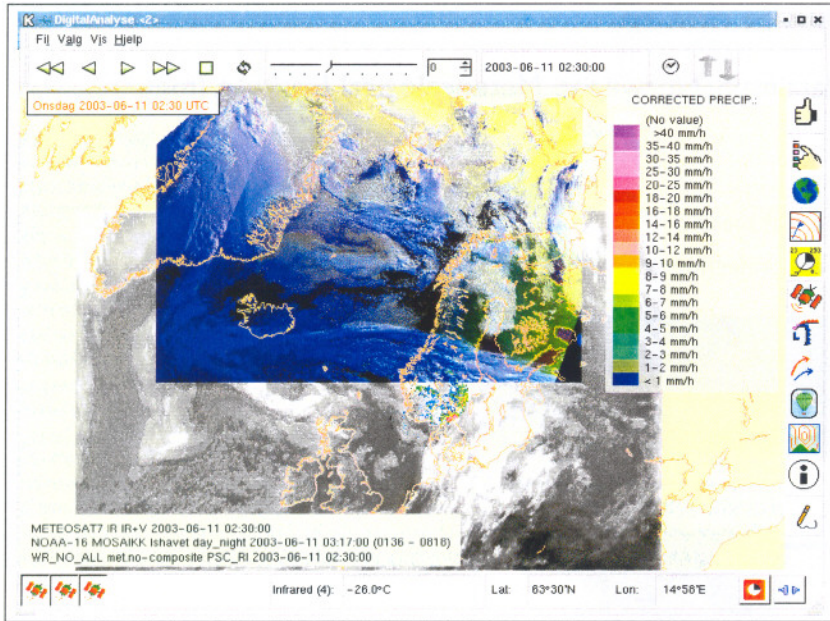
- Linux (Irix)
- C/C++
- Mesa (Open GL)
- Qt
- Freeware components

DIANA (Digital ANALYSIS)

Visualisation

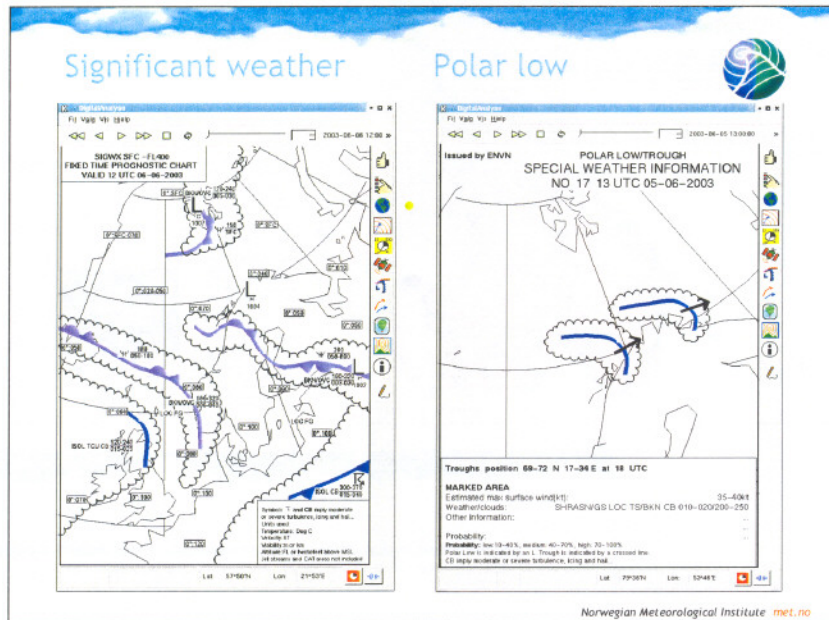
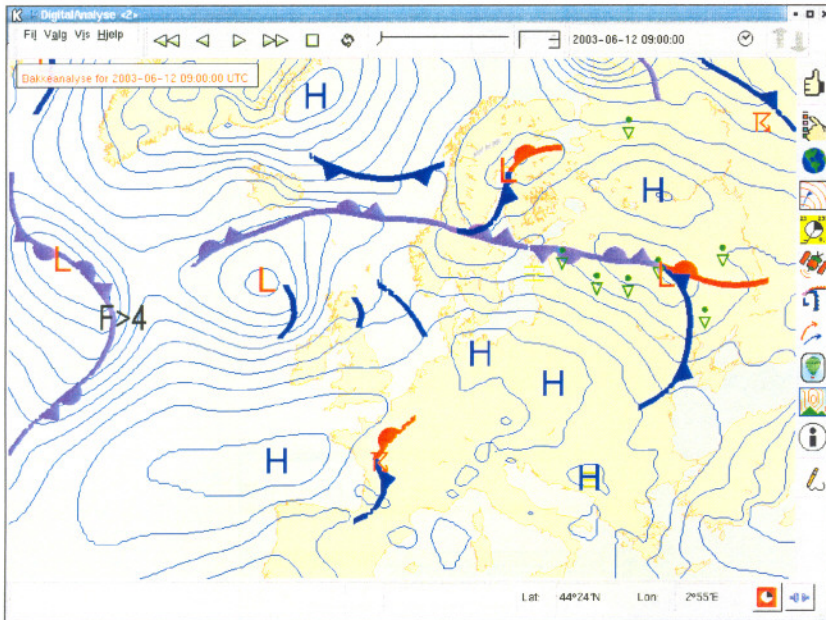
- Fields
- Satellite and radar images
- Surface observations
- Soundings
- Cross Sections
- Forecast products





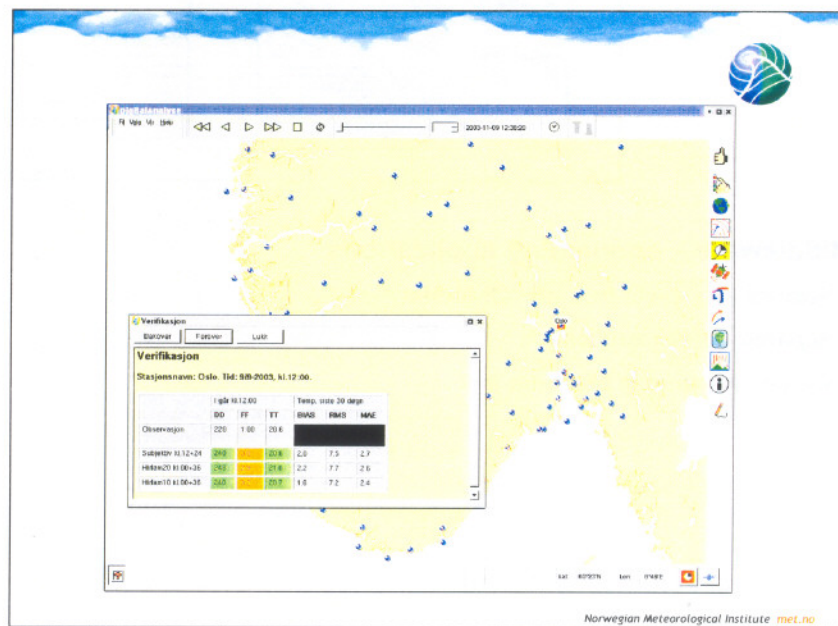
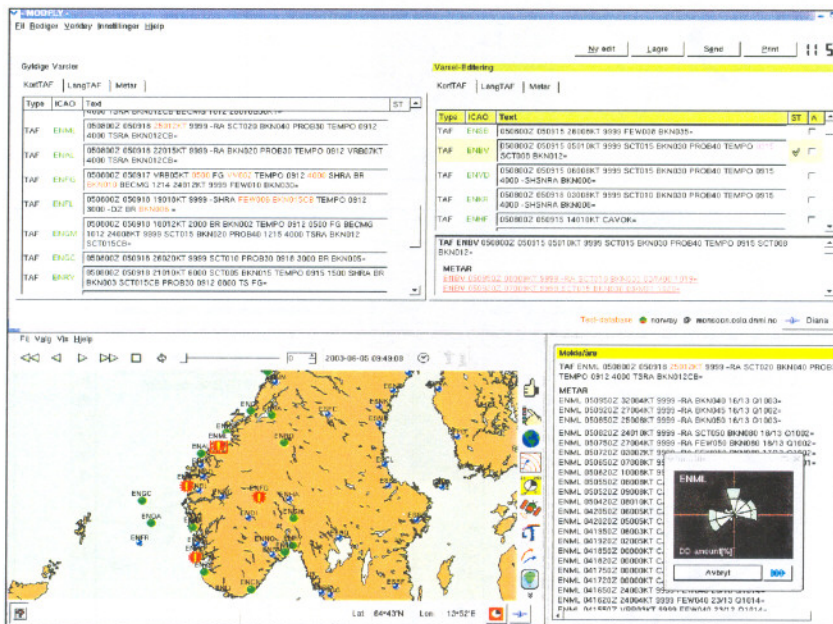
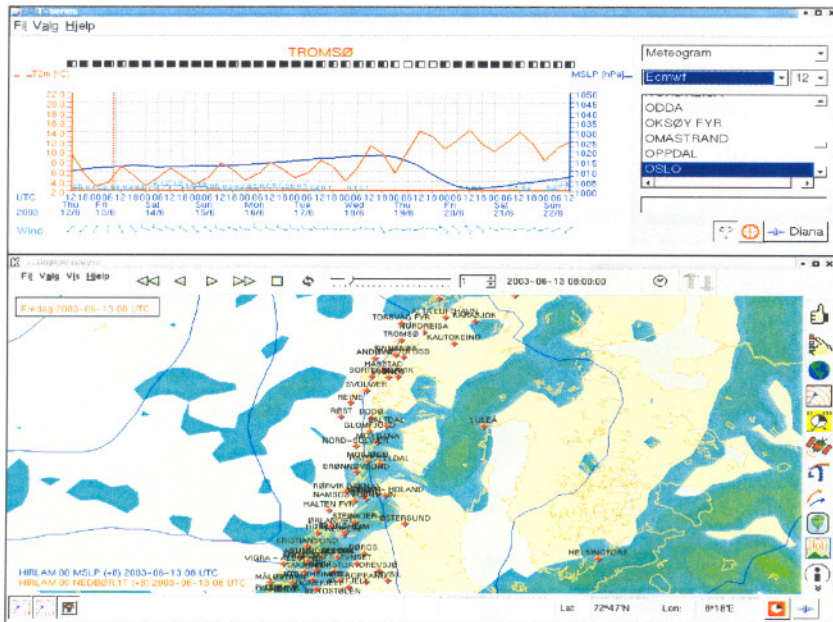
DIANA – interactive tools

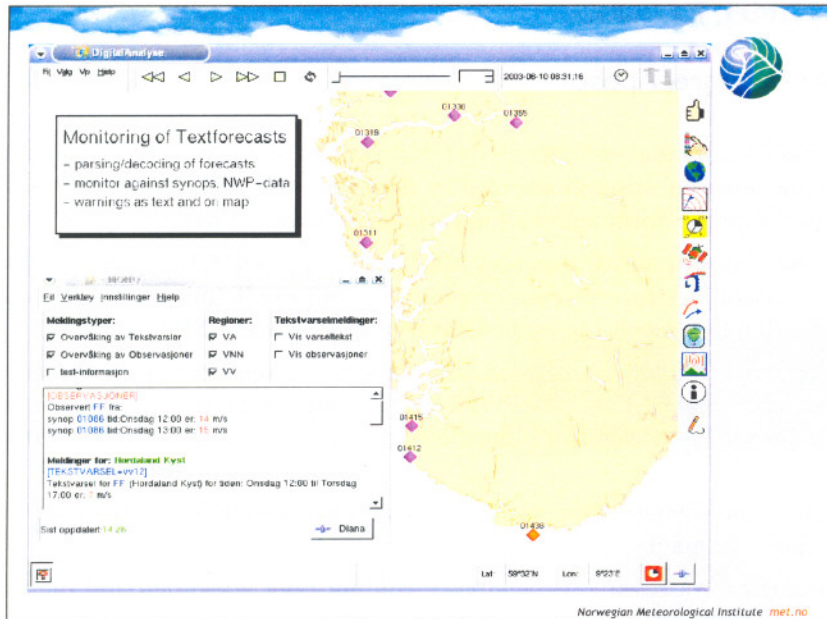
- Scalar field modification
- Drawing of fronts, significant weather symbols, etc.
- Combination of products from regional centers



Middleware – connecting applications

- Sockets (Q.Sockets from the Qt toolkit)
- Separate server application
- Communication is based on text





DIANA – interfaces

- Macros
 - Predefined (products for specific tasks)
 - User defined
- Full GUI control set
- Batch version – identical code base

DIANA

- Developed for operational use
- Fast development cycle – monthly updates
- Small development crew in close cooperation with forecasters
- Increased usage by researchers
- New applications (HQC)