

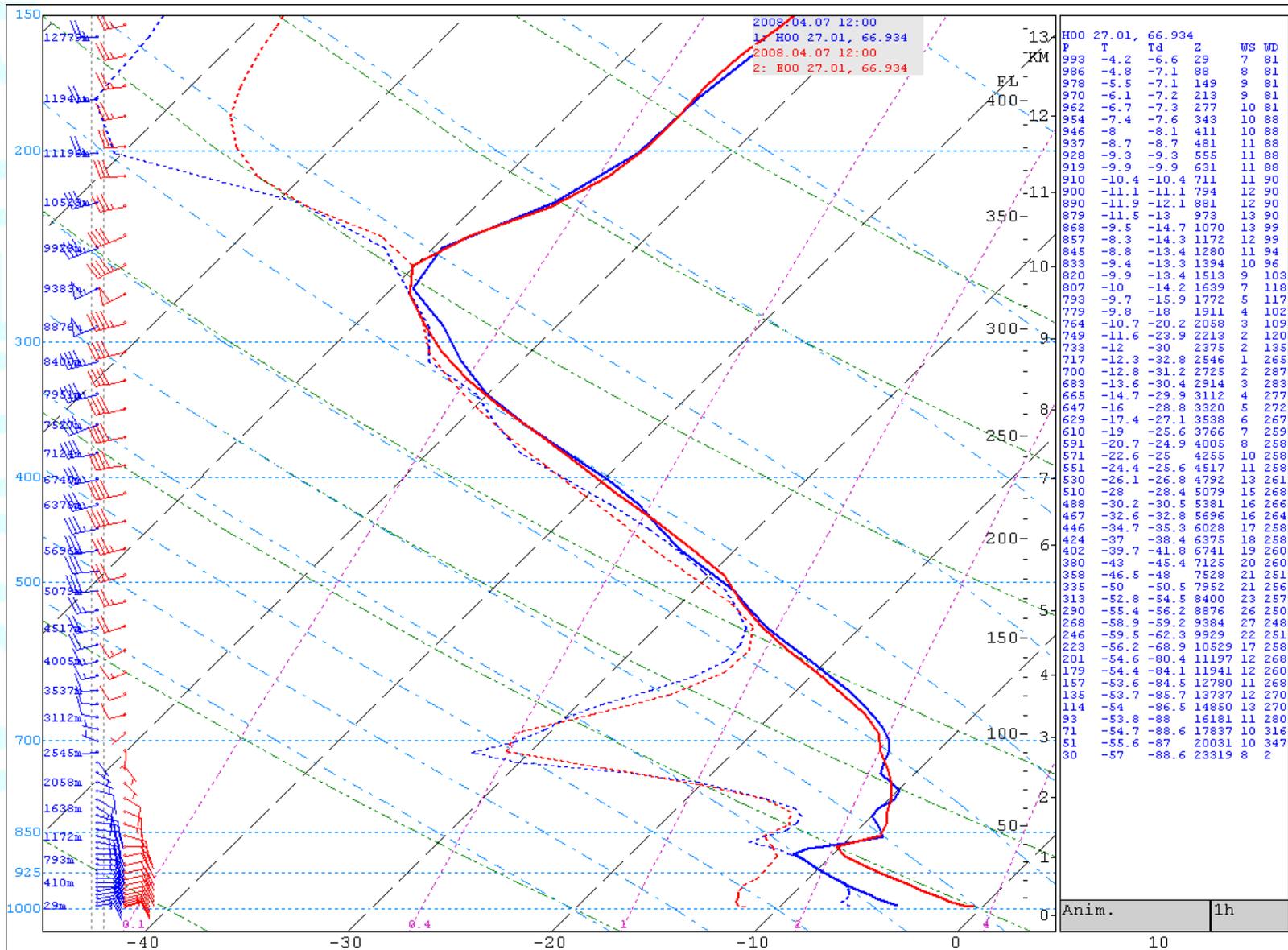
The logo for Eumetcal, consisting of the word "Eumetcal" in a light blue, sans-serif font, rotated 90 degrees counter-clockwise and positioned on the left side of the slide.

How to bring modellers and forecasters together – Eumetcal plans

Vesa Nietosvaara
FMI/Eumetcal

Brussels 10 April 2008

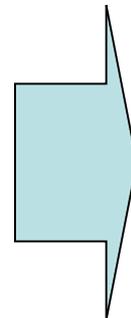
Two forecasts from this week Monday



Forecaster – modelling/research communication

Modelling

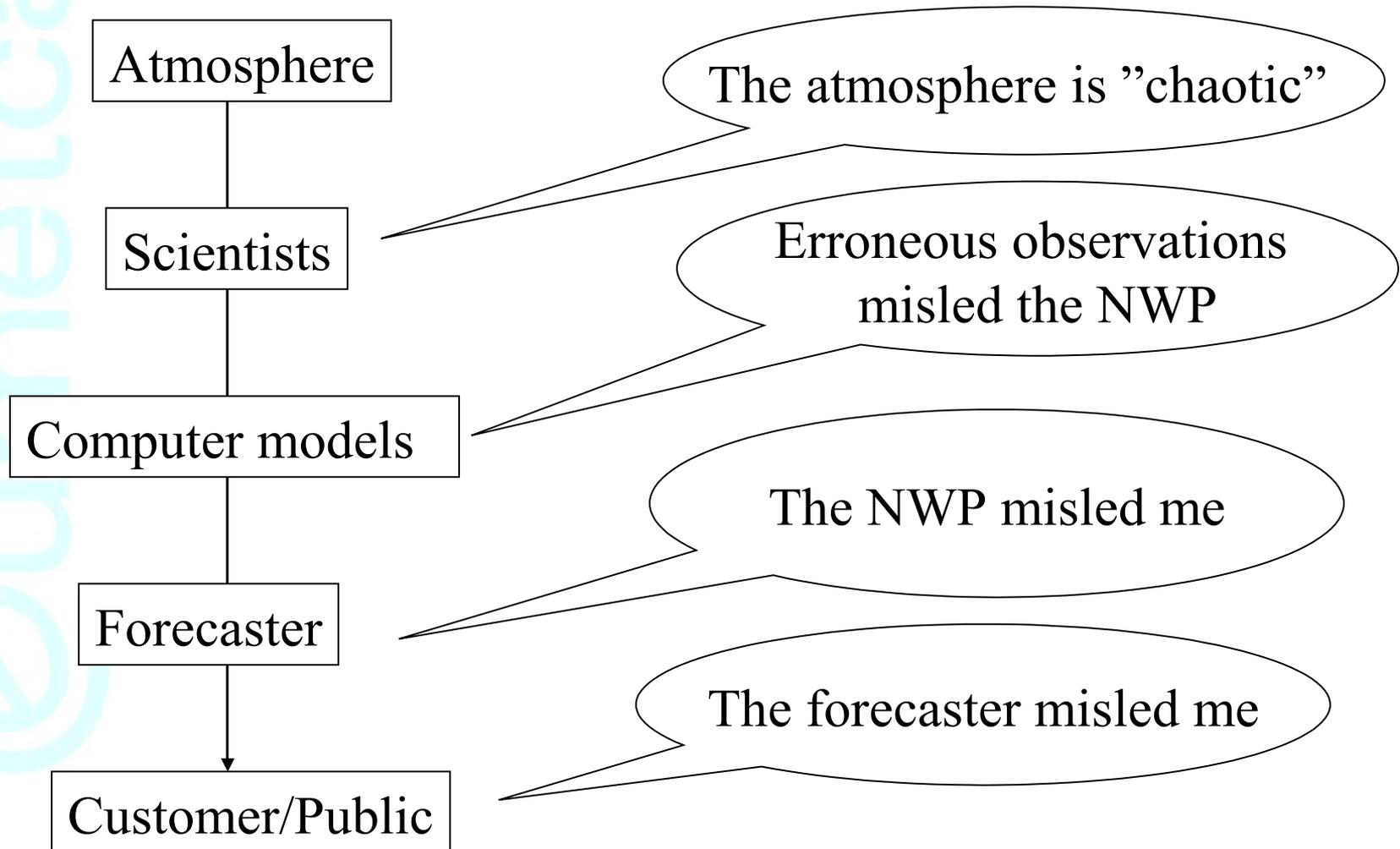
- Model updates
- Verification results
- New products



Forecasting

- Data requests
- Presentation requests
- Major forecast failures (“blame game”)

"The Blame Game" or "The Passing of The Puck" (Anders Persson)



Forecaster views..

- “Everyone knows models are not perfect, but would be great to know the dates when they are even less perfect than usual”

Forecaster views..

- “Model developers like to present successful cases of the model, but are not so willing to present failures”

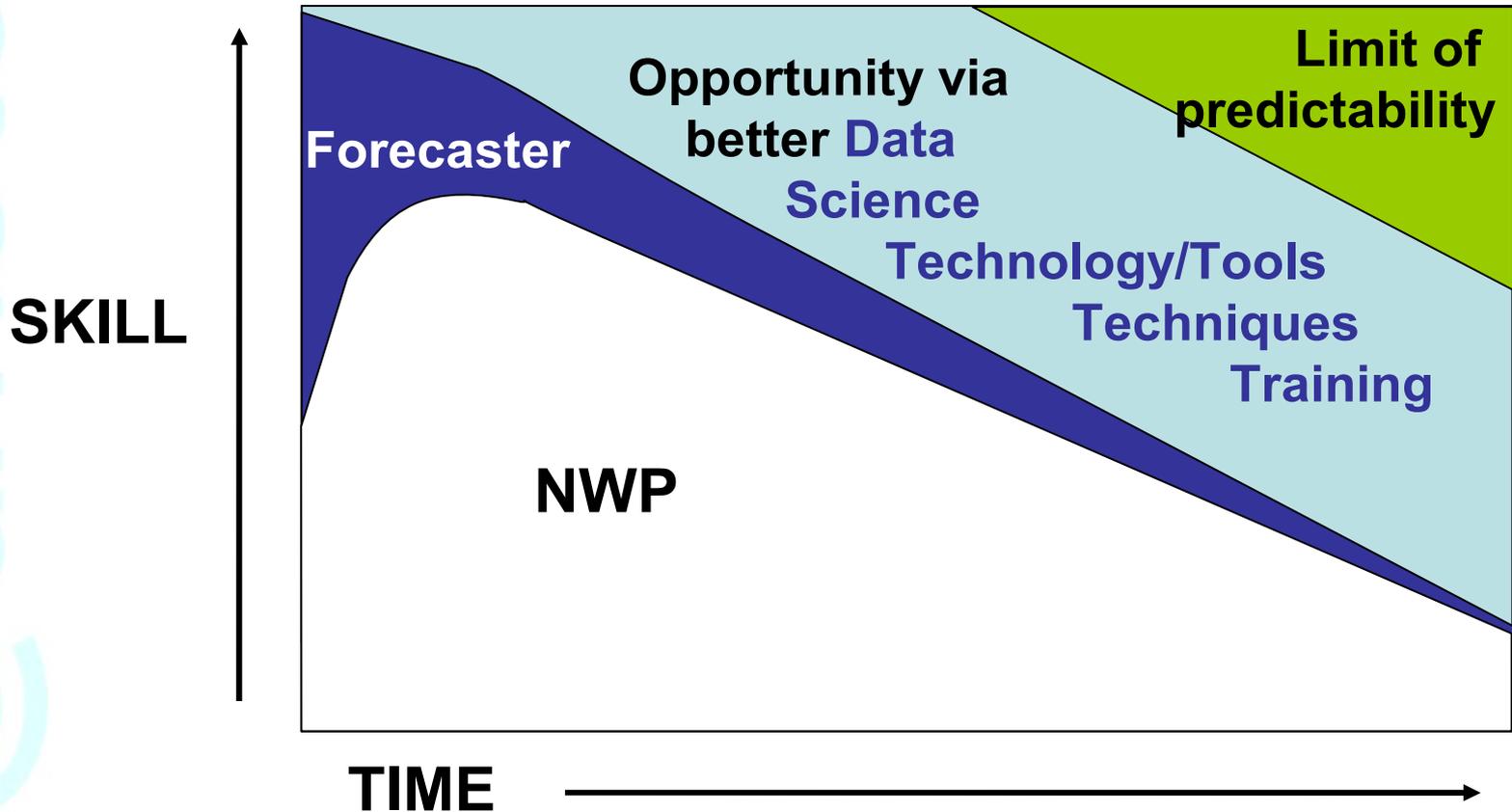
Forecaster views on NWP..

- “The culture of “blame game” is not desirable.
- Instead, stimulating a constructive discussion between developers and forecasters is needed.

Forecaster views ...

- The verification highly sophisticated but more influenced by developers.
- The forecasts have steadily improved, but how to measure the human impact in this?

Adding Value

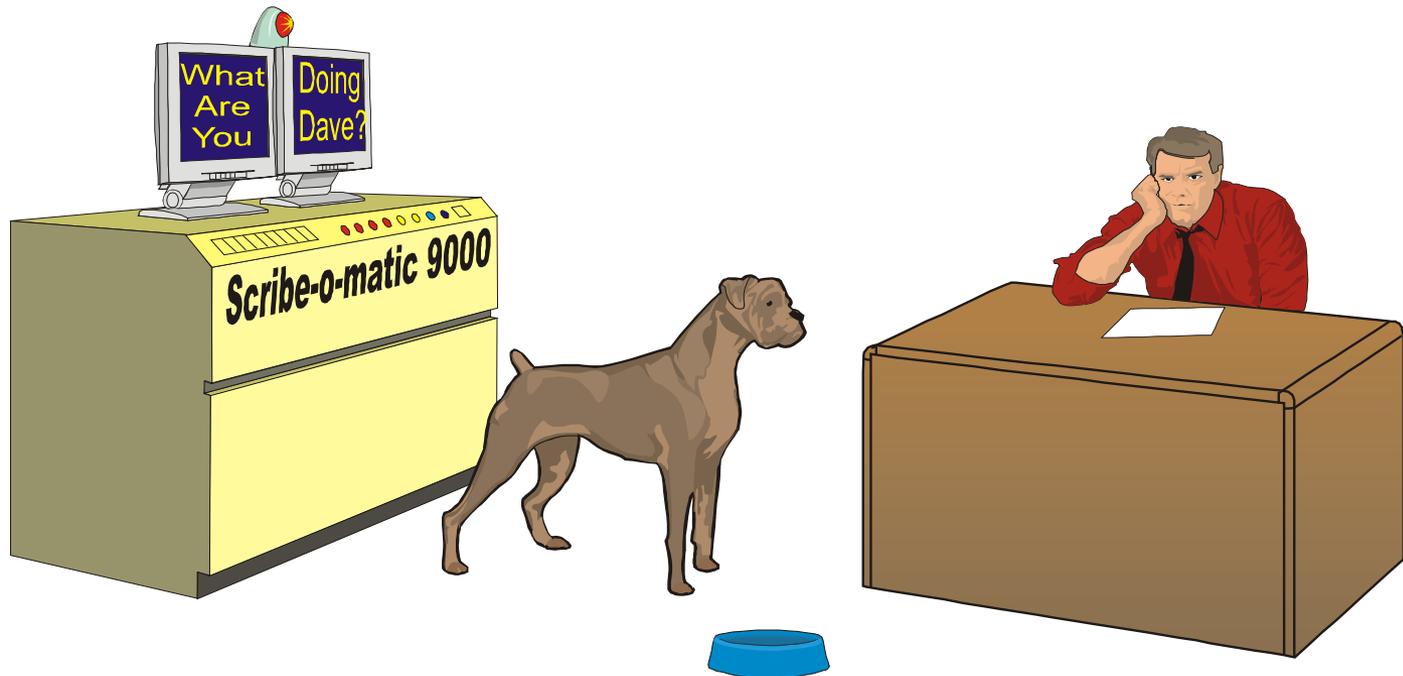


@ummetcal

Dave Ball (MS Canada)

Weather Office of the Future

A forecaster
a computer
and a dog



@umetcal

Forecaster views ...

- Work arrangements: no time for research or investigation of cases.
- Forecasters may feel a little bit off-side of the scientific discussion.
- Contacts to research departments sometimes weak...
- ..which can in turn lead to development of tools not relevant for forecasting practice.

What can Eumetcal do?

- Eumetcal (<http://www.eumetcal.org>)
“European Virtual Organisation for Meteorological Training”
- NWP Working Group, with tasks to:
 - Identify needs for NWP training
 - Organise NWP training courses
 - Seek ways to increase communication between forecasters, research scientists and modellers
 - To give technical support for training delivery

A survey on NWP training needs

- NWP WG recently performed a survey on training needs and wishes among the member NMSs.
- Responses from 15 NMSs

The greatest needs in NWP training

- Nowcasting and short range forecasting
- Probabilistic forecasting
- Severe weather forecasting and HIW in general
- Strengths and weaknesses of the various models
- Tools for validating models
- Learning how to use right data at the right moment

The importance of some components in NWP training

- The following themes are regarded as particularly important:
 - Predictability
 - Ensemble prediction
 - Decision making process
 - Mesoscale models
 - Nowcasting

Suggestions for enhancing the communication

- A common discussion forum
- Joint and regular workshops: national, international, regional or model-specific workshops
- Giving forecasters time for research projects and researchers time for getting acquainted with a real forecasting
- Case studies worked out together
- “Hot link” between modellers and forecasters..

Future plans

- Building more contacts with NWP experts (particularly LAM community)
- Collecting and creating training material
- Becoming aware of potential instructors for future Eumetcal NWP courses



Thank you...

- ...for your attention!
- ... and for speaking out your suggestions now!