



Visualization of probabilistic weather forecasts for public and professional use

Why are we doing this?

We want the users to:

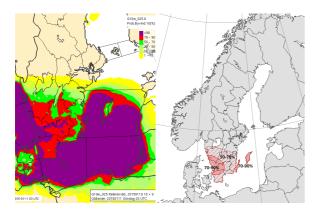
- Get a better picture of the situation
- Make decisions with an awareness of risks
- Complain less
- Increase their confidence in us

Professional use

SMHI Varningar



- Interacting with professional users
- Visualization of uncertainty for professional users
- See how the users interpret probabilistic forecasts and how they take decisions based on it



Public use

- Iterative process
- Interacting with the public
- Visualization of uncertainty for a general purpose
- Prototype



Idag 31 augusti		Ganska osäkert väderläge	
	MEST TROLIGT	MINDRE TROUGT	MINST TROLIG
kl 09	Troligt: 52%	42%	6%
	4	4	*
	16° 0-0,1 mm	0,2-1 mm	17°
kl 10	Troligt: 71%	29%	0%
	-	-	
	16° 0,2-4 mm	17° 0-0,1 mm	
ki 11	Troligt: 48%	43%	9%
	-	4	-
	16° 0,2-27 mm	17° 0-0,1 mm	17° 0 mm
kl 12	Troligt: 62%	29%	9%
	-	4	-
	16° 0,2-11 mm	17° 0-0,1 mm	17° 0 mm
ki 13	Troligt: 62%	33%	5%
	4	46	-
	16° 0.2-25 mm	17° 0-0,1 mm	17°

Conclusions

- By identifying the weather based decisions among the users, it is possible to produce a desired product
- If the content is complicated, the design needs to be simple
- Percentage is often connected to precipitation
- Presenting probabilities in a map may give a false impression of the geographical accuracy