



Meteorological information and guidance: an important basis for decision-making for organizers of outdoor events



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ZAMG
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- meteorological support for open-air events
- ZAMG products for major events
- decision processes at major events
- Conclusion: impact-oriented warnings and forecasts

Small outdoor events

Irish Meteorological Society, Dublin, 26th of September 2019

04.10.2019

Folie 3



approx. hundreds of visitors
small sport meetings, cultural events

- telephone service
- general severe weather warnings (windstorm, thunderstorm, hail, strong precipitation, black ice)
- written information (forecast, meteorological risks)

Medium-size outdoor events

Irish Meteorological Society, Dublin, 26th of September 2019

04.10.2019

Folie 4



**approx. thousands of visitors:
e.g. contests, music festivals**

- priority telephone service (limited number of costumers)
- individual severe weather warnings (arbitrary thresholds and parameters)
- web portal (satellite, radar, weather station, analysis and forecast of temperature, precipitation, wind gusts, etc.)

Major outdoor events

Irish Meteorological Society, Dublin, 26th of September 2019

04.10.2019

Folie 5



**> 10.000 visitors:
e.g. big sport events, mega concerts**

- individual advice and support (telephone, written info)
- weather station on site
- forecaster on site



ZAMG products for major events

Irish Meteorological Society, Dublin, 26th of September 2019

04.10.2019

Folie 6

- weather forecasts before (setup), during and after (destruction) event
 - ➔ medium-term and long-term planning
- individual severe weather warnings
 - ➔ rapid decisions
- priority telephone service (max. three costumers)
- meteorological advice and guidance on site

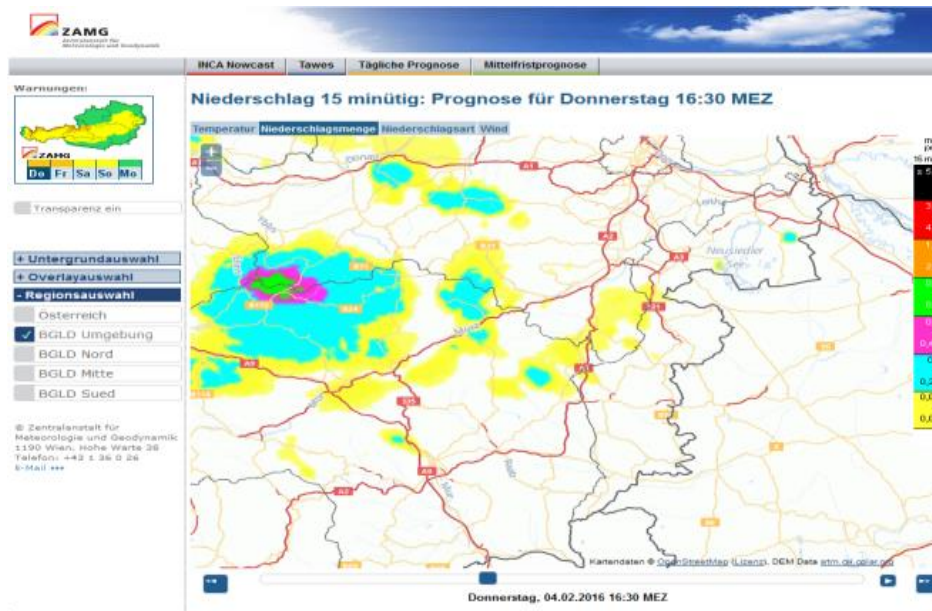
ZAMG products for major events

Irish Meteorological Society, Dublin, 26th of September 2019

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Folie 7

- web portal: INCA analysis und forecast data
- weather station for the event
- expert's report



decision processes at major events

Irish Meteorological Society, Dublin, 26th of September 2019

04.10.2019

Folie 8

Before the event:

➤ Meetings with the event organizers:

- * licensing requirements and orders
- * who/what can be influenced by extreme weather und how (visitors, tents, stages, sales stalls, containers, vegetation, infrastructure, protective gratings/fences, advertisement/placards, streets, pedestrian paths,.....) ?
- * defining thresholds (impact)



Before the event:

- * time to handle ?
- * responsibility for taking action (police, ambulance, fire brigade, private security, municipal authorities, public transportation services, organizers of the event, etc.) ?
 - ➔ direct information path
 - ➔ fast information transfer

During the event:

- meteorological assistance from ZAMG/Hohe Warte:
 - * weather forecasts and warnings
 - * consulting service via telephone, walkie-talkie
 - ➔ time lag (e.g. reachability)

- meteorological assistance on site:
 - * weather forecasts and warnings
 - * guidance, advice, meetings at event location (direct briefings)
 - ➔ fast information transfer
 - ➔ in cases of ambiguity forecaster can react immediately



After the event:

➤ debriefing with event organizers and emergency services:

- * what works well ?

- * ambiguity and unsureness ?

 - ➔ clear instructions and procedures

 - ➔ proper wording

 - ➔ simple words and sentences

- * real troubles ?

 - ➔ what can we learn for next event?

Conclusion

Irish Meteorological Society, Dublin, 26th of September 2019

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Folie 12

- impact-oriented warnings and forecasts
- Not: what will the weather do ?
But: what does the weather mean for the costumer/user ?

Windstorm

Heavy Rain



@ Feuerwehr Tulln

Conclusion

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Folie 13

- High level of customer-orientation
- Well trained forecasters
- Experienced forecasters
- Decisive forecasters
- Flexible and outcome-oriented forecasters
- Forecaster with a high level of stress-resistance
- Good infrastructure (power-supply, IT, etc.)
- Full data access



Examples

Irish Meteorological Society, Dublin, 26th of September 2019

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Folie 14



Thank you very much for your attention! Questions???

