


Zentralanstalt für Meteorologie und Geodynamik 

METEOALARM EXTENDED FEATURES

Michael Staudinger



MeteoAlarm (EUMETNET):

Provide pan - European alert information on an Online Internet platform for a variety of weather parameters, understandable by all actors (private and public sector)

Sources: National Meteo and Hydro Services

METEOALARM EXTENDED FEATURES

Besides the public several governmental institutions have shown a high interest in the Program. User feedback suggested EMMA to evolve towards a more comprehensive multi-hazard system:

- Extension of the forecast period to 5 days
- Further development of flood and rain warnings
- Additional hazard types like warnings for coastal sea areas, avalanches etc.
- Cooperation with other services with technical standards as CAP



Partners:

- Zentralanstalt für Meteorologie und Geodynamik (ZAMG) (CO)
- Koninklijk Nederlands Meteorologisch Instituut, (KNMI) (AB1)
- ILMATIETEEEN LAITOS (FMI) (AB2)

- Beneficiaries:
- implementation in Austria, Belgium, Croatia, Czech Republic, Greece, Ireland, Iceland, Italy, Germany, Lithuania, Luxembourg, Denmark, Netherlands, Spain, Serb Republic, Norway, Finland, Portugal, France, Sweden, Switzerland, United Kingdom, Hungary, Cyprus, Slovakia, Poland, Romania, Slovenia
- Used by the public, the Civil protection and MIC (EC DG Env)
- Total costs: € 303.700, EC: € 227.7775.-



The alert information has been understood by the user community as a *warning* system, even if technically MeteoAlarm does not fulfill all criteria of a warning system in all countries

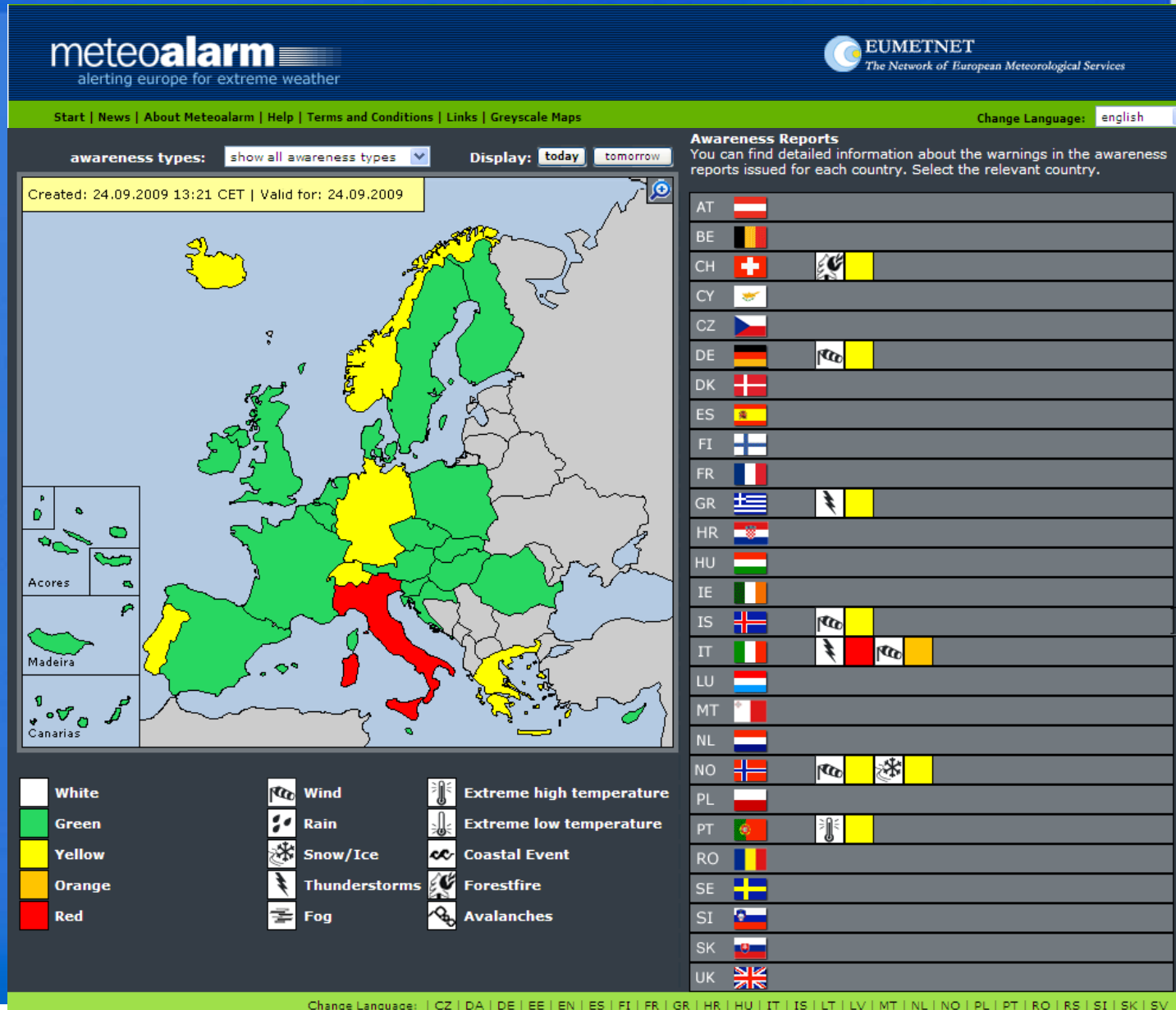
What is a warning?

Tangible and understandable description of an expected scenario
+ a clear advice what to do

Who are the users?

Locals and (pan) European professionals and travellers, in need of understandable information across Europe

METEOALARM operational maps for today + tomorrow

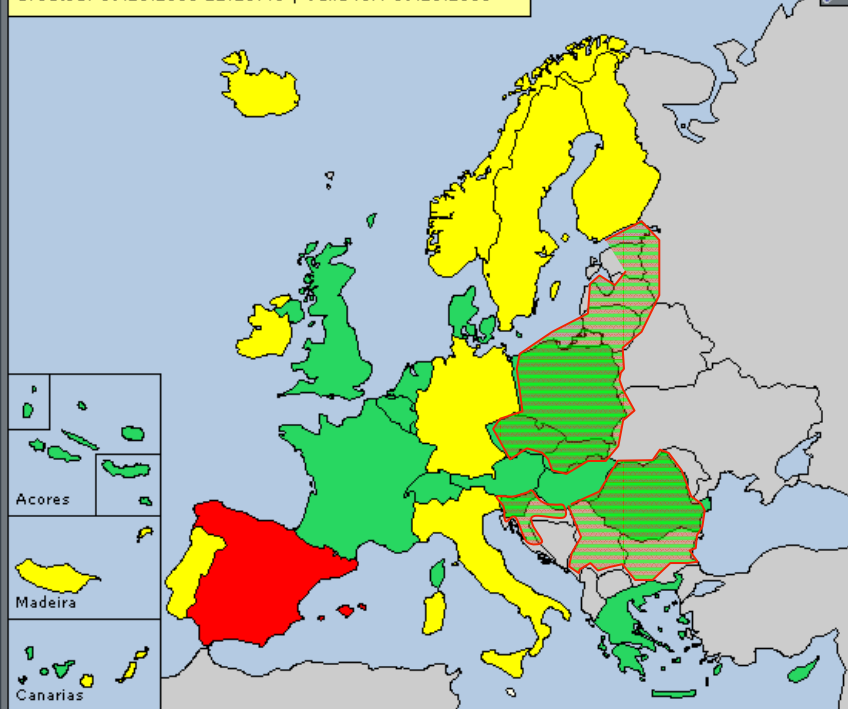


Avertizari meteorologice: Europa

meteorologic Selectionati fenomenul
Toate fenomenele

Afiseaza: azi
maine

Created: 09.10.2008 12:10:48 | Valid for: 09.10.2008



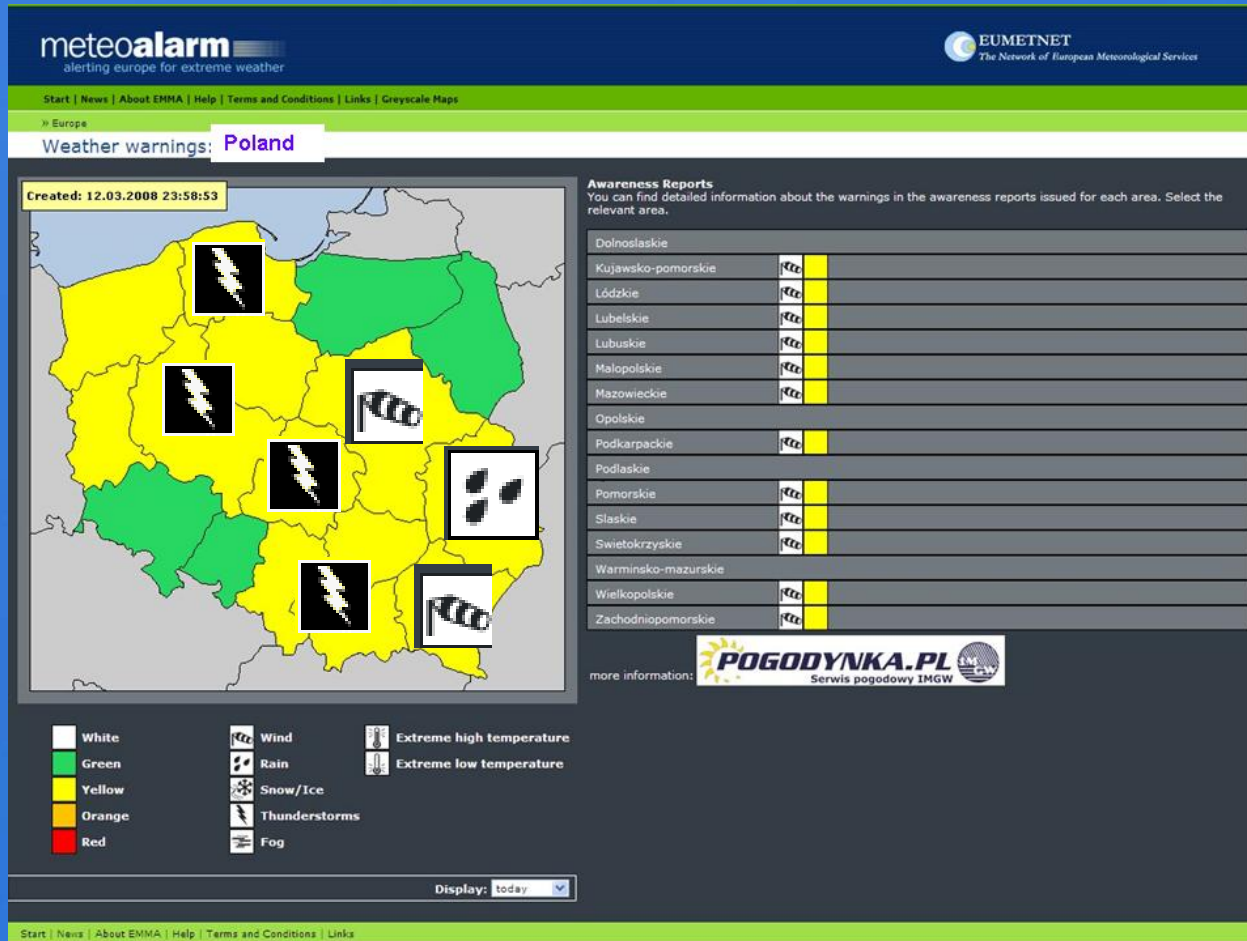
Buletin de avertizare

Selectati o tara pentru a avea informatii detaliate privind corespunzatoare.

AT		
BE		
CH		
CY		
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DK		
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UK		

- english
- català
- čeština
- dansk
- deutsch
- español
- eesti
- euskera
- français
- galego
- hrvatski
- islenska
- italiano
- lietuvių
- latviešu
- magyar
- malti
- nederlands
- norsk
- polski
- português
- română
- srpski
- slovenščina
- slovenčina
- suomi
- svenska
- Ελληνικά

METEOALARM operational maps for today + tomorrow



METEOALARM operational maps for today + tomorrow



Warnings for: Dél - Dunántúl



Valid from 12.06.2007 13:23:07 CEST **Until** 12.06.2007 23:59:59 CEST

Thunderstorms

Awareness Level: **Orange**

Locally severe thunderstorm might occur accompanied by very high wind (gusts above 90 km/h) or large hail (above 2 cm).

Heves zivatar! Néhol előfordulhat heves zivatar, amit intenzív csapadék, erős vihar (90 km/h fölötti szélleökés) vagy legalább 2 cm nagyságú jég kísérhet.

more information: Hungarian Meteorological Service



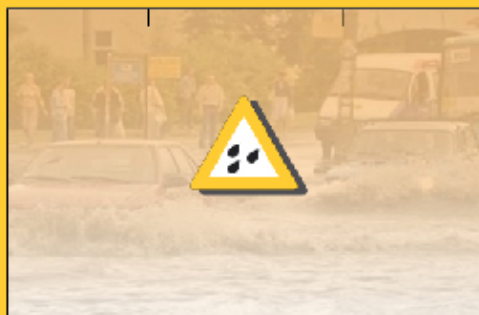
[Back to Europe](#)



[Back to Countrymap](#)



Hungarian
Meteorological
Service



Valid from 12.06.2007 13:23:07 CEST **Until** 12.06.2007 23:59:59 CEST

Rain

Awareness Level: **Orange**

Locally there may be intensive precipitation with high amount of rain (above 50 mm in 1-3 hours).

Felhőszakadás! Néhol előfordulhat rövid idő (1-3 óra) alatt 50 mm-nél nagyobb mennyiségű eső.

more information: Hungarian Meteorological Service

METEOALARM warning schedule

Redagno 2006



Colour	One word	Damage / Impact	What to do?	Used how often? (Area approx. 300 000 km ²)	Meteo Treshholds e.g. Rain (area + impact related)
Green	Weather report	- - -	usual phenomena	usual phenomena	Examples
yellow	Be aware!	exposed objects (avoidable)	caution with exposed activities	> 30 per year	> 54 mm/12h
orange	Be prepared!	general damages (not avoidable)	keep informed in detail, follow advice of authorities	1 to 30 per year	> 80 mm/12h
red	Take action!	extreme damage and /or casualties <i>extreme damage (mostly) on large areas, threatning life and properties</i> (not avoidable, even in otherwise safe places)	follow order of authorities under all circumstances be prepared for extraordinary measures	less then 1 year + <i>large (5000km²) scale phenomena</i>	> 140 mm/12h



EUMETNET

The Network of European Meteorological Services

Zentralanstalt für Meteorologie und Geodynamik





5 – day warnings

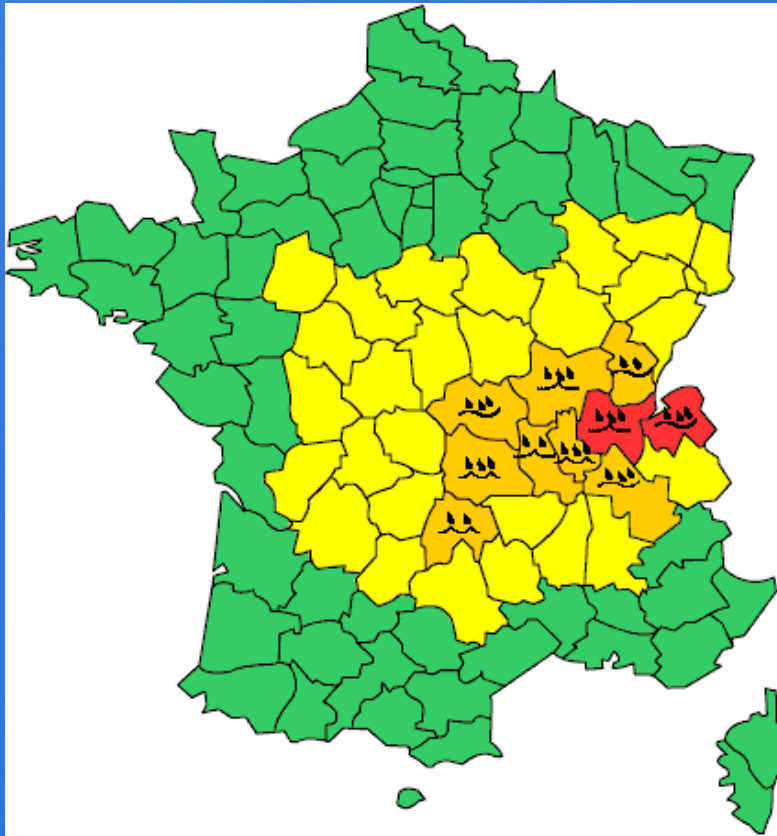
For a password protected user group:
Using the same color scheme as 36h forecasts
(fitting to other forecast products)
development of a scheme of probabilities of alerts

RSS in CAP Format

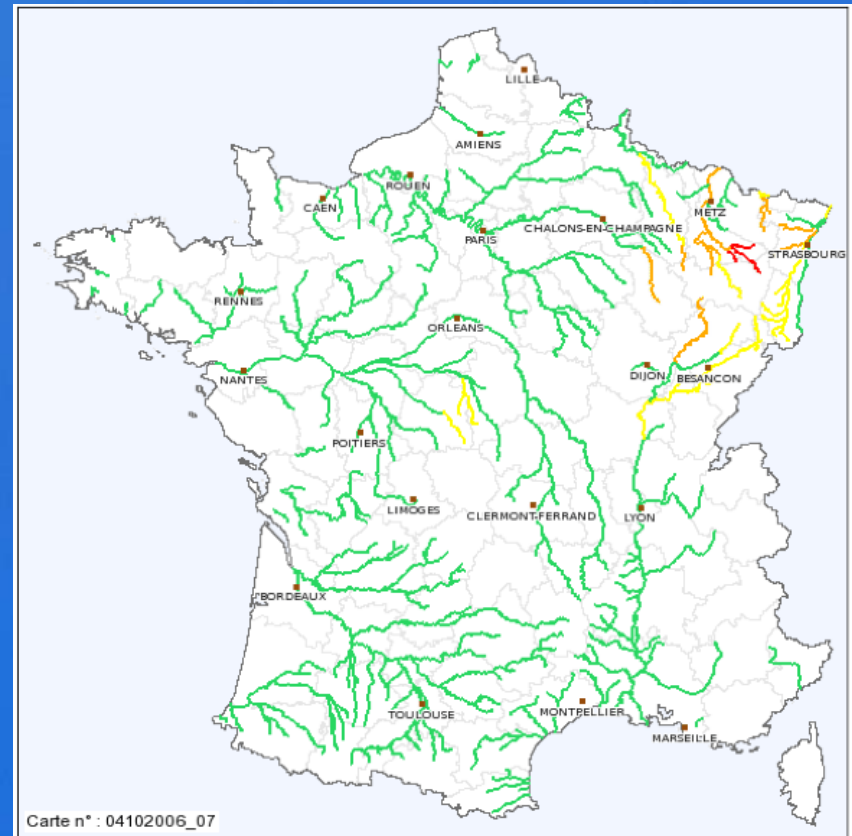
ensuring transferability to other platforms

Activities for the coming year

Integration of products of other services: flood warnings



France: Vigilance



Schapi

Activities for the coming year



alerting europe for extreme weather



EUMETNET
The Network of European Meteorological Services


Start | Neuigkeiten | Über Meteoalarm | Hilfe | Nutzungsbedingungen | Links | Graustufenkarten

Sprache ändern: deutsch

» Europa:

Warnungen für: Kärnten

Anzeigen: heute morgen



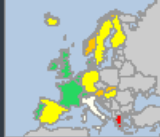
Gültig von 27.01.2008 09:15:00 CET bis 28.01.2008 08:15:00 CET

Rain and/or floods

Gefahrenstufe: **Orange**

Flood warning Carinthia:
local flooding possible

Zurück zu Europa:




Zurück zu Länderkarte:



Mehr Information:



HYDROGRAPHIE Homepage

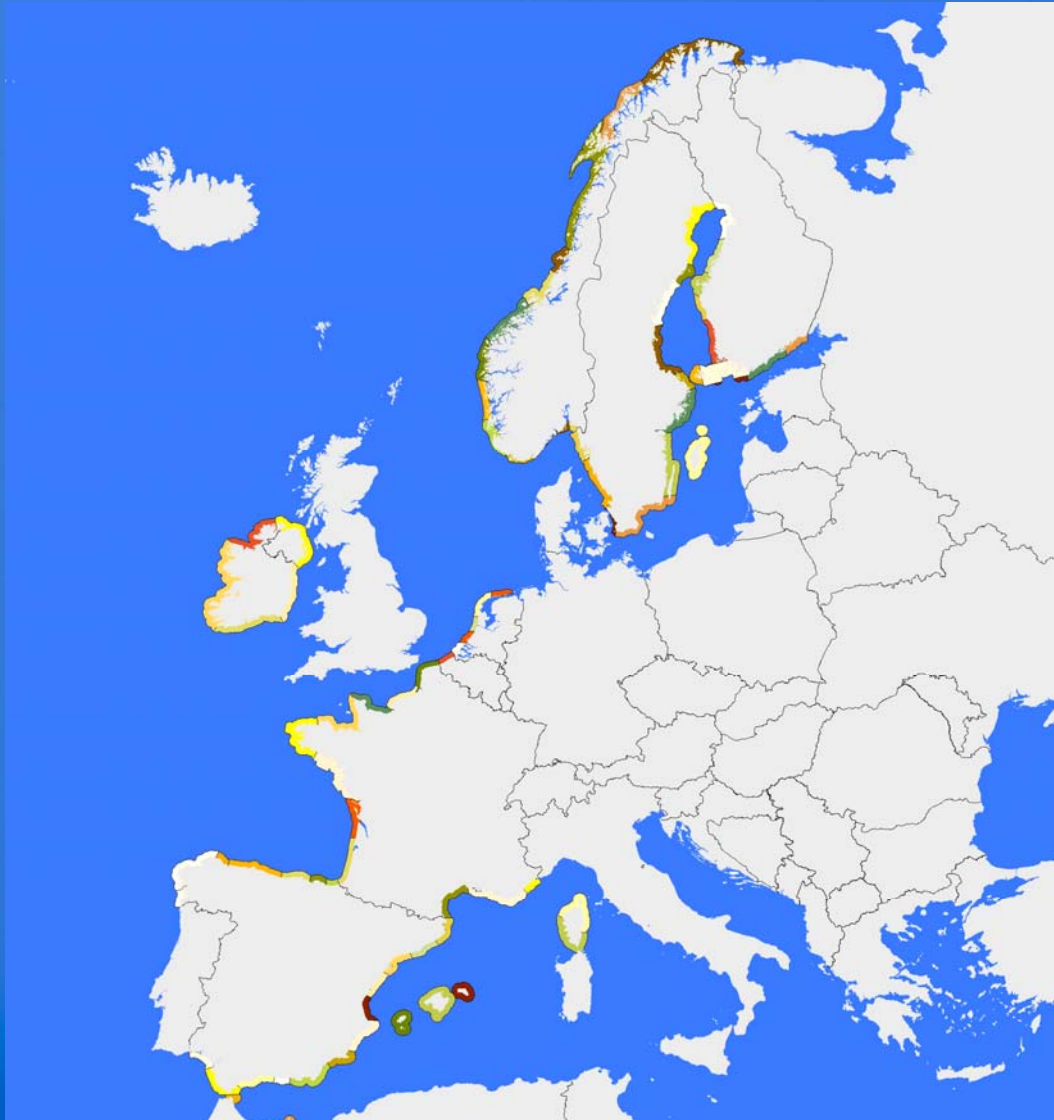


Amt der Kärntner Landesregierung,
Hydrographischer Dienst
Tel 0463 536 31814

Activities for the coming year



■ Coastal area warnings



Possible
warned features:

Wind
Thunderstorms
Visibility
Icing
storm surge
water level

Time schedule

	Month 4	Month 8	Month 12	Month 16
A 5-day warnings	Definition of probabilities, Operational testing	Harmonisation, start of operations	Documentation, implementation of user feedback	Final report
B Additional hazard types	System analysis	Meeting with other Hydro services	Testing + operational implementation	Documentation + final report
C CAP RSS	System analysis, Standardisation	Integration of private sector, test of operations	Start of operations, integration of OASIS feedback	Documentation + final report
D Coastal sea area warnings	Commitment of partners, shape files	Demonstration phase, testing	Operational run	Additional partners, final report

Time schedule

	Month 4	Month 8	Month 12	Month 16
D Communi- cation	Communicati on plan, Internal newsletter	Broschure and leaflet for general users	Additional recommanda tion for NMC's	Broschure and leaflet for targeted users
E Project Management	Kick off meeting, user meeting	Meeting with MIC Monitoring of operational tests	Feedback to operators to taks A,B,C	Preparation and delivery of final report