



Climate ≈ water

Bridging the gap between adaptation strategies of climate change impacts and European water policies

ClimateWater mid-term Meeting
Bratislava May, 26-28.2010

Research Needs

University of Vienna,
Department of Limnology

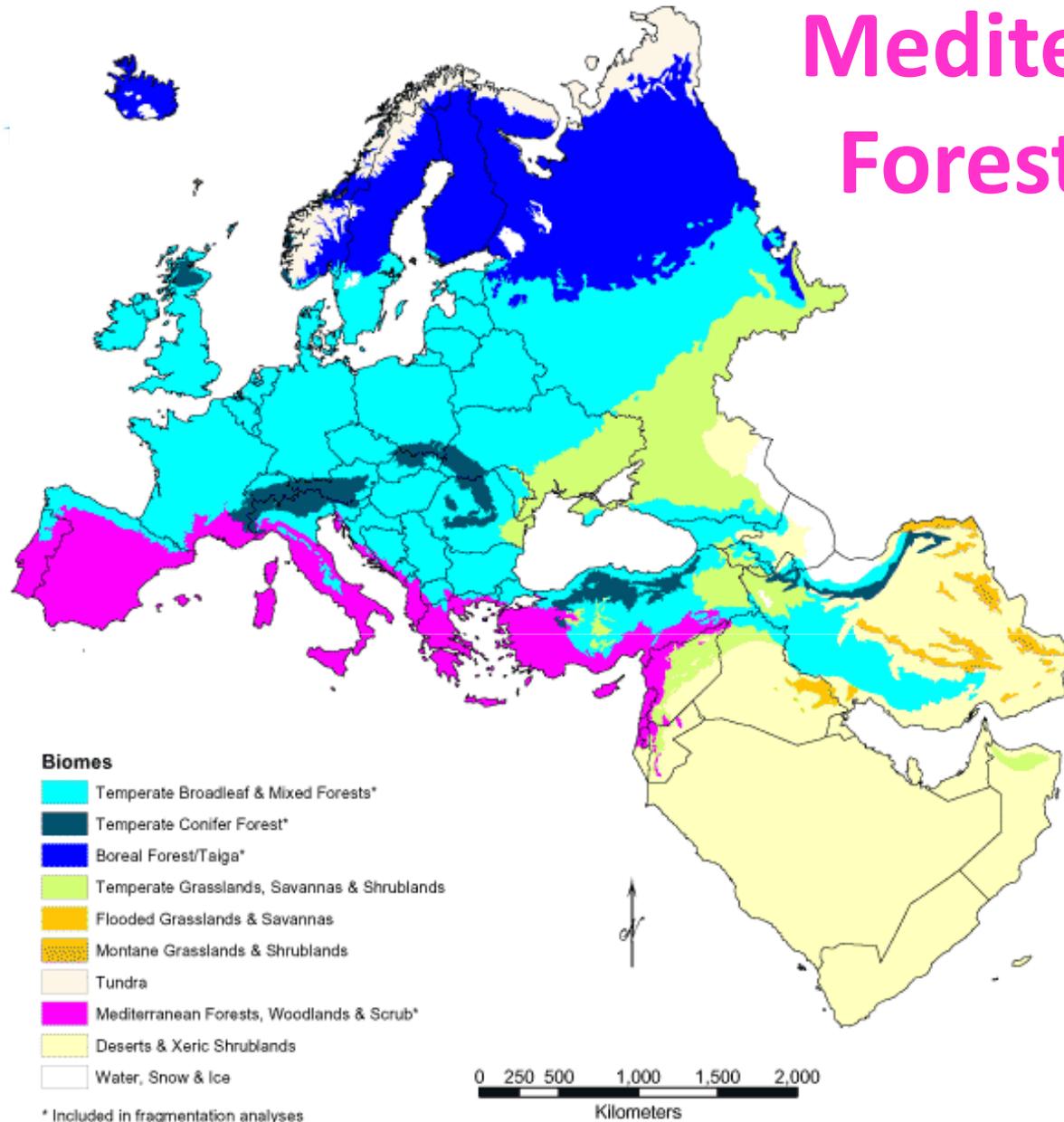
Climate
≈ water



Research needs in

AQUATIC ECOSYSTEMS...

Mediterranean Forests Biome



Mediterranean Forests Biome

Biological quality elements:

- Phytoplankton and aquatic flora and Fish fauna:
species composition
- Growth Rates of Fish

Mediterranean Forests Biome

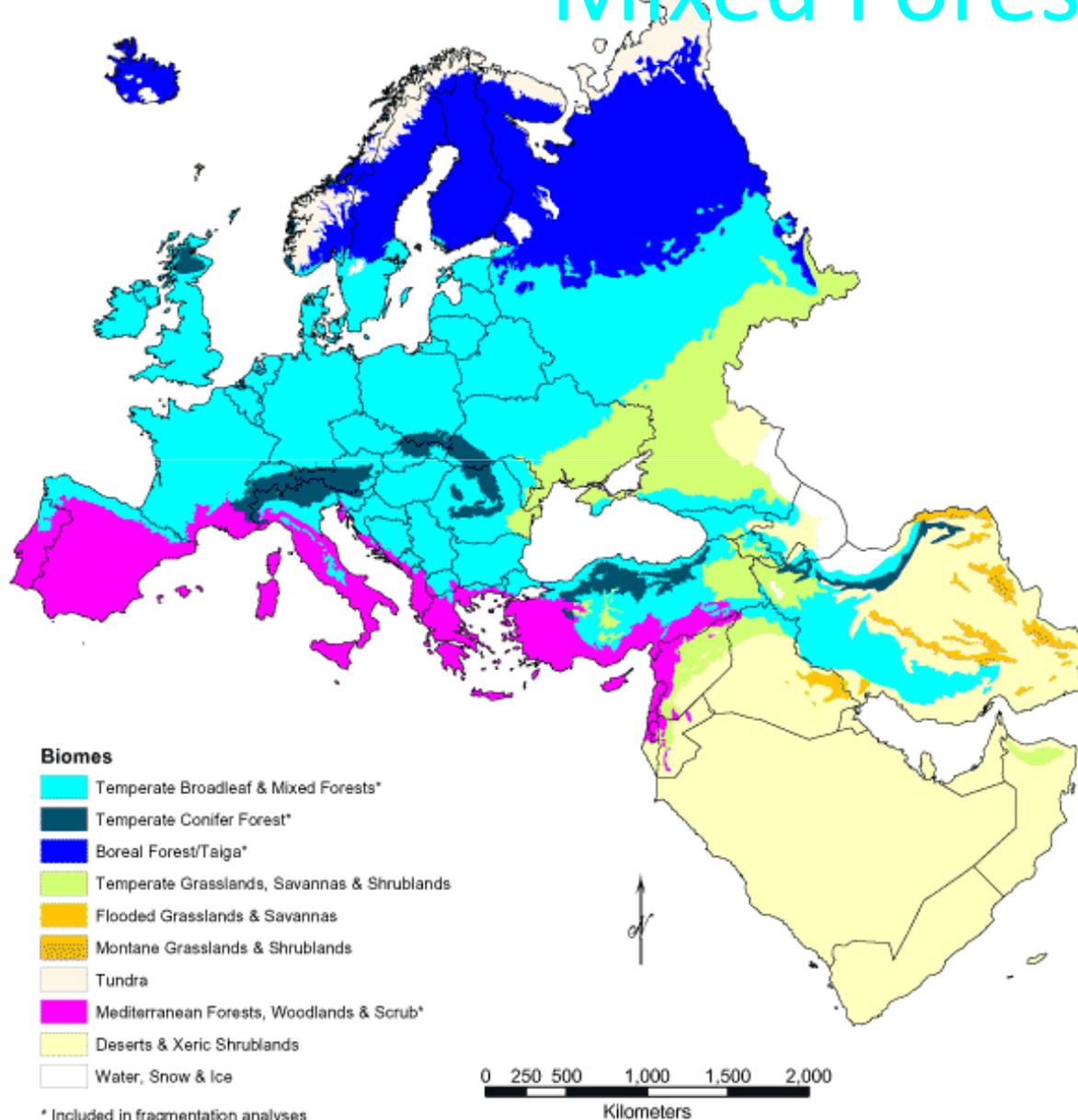
Hydromorphological quality elements:

- Connection to groundwater bodies, river continuity, residence time, structure of the lake/river bed, structure of the riparia zone and the lake shore

Chemical and physico-chemical elements:

- Lake transparency, acidification status, pollution by priority and other substances

Temperate Broadleaf and Mixed Forests Biome



Temperate Broadleaf and Mixed Forests Biome

Biological quality elements:

- Phytoplankton, invertebrate and fish fauna :
species composition and growth rates
- Aquatic flora: species composition

Temperate Broadleaf and Mixed Forests Biome

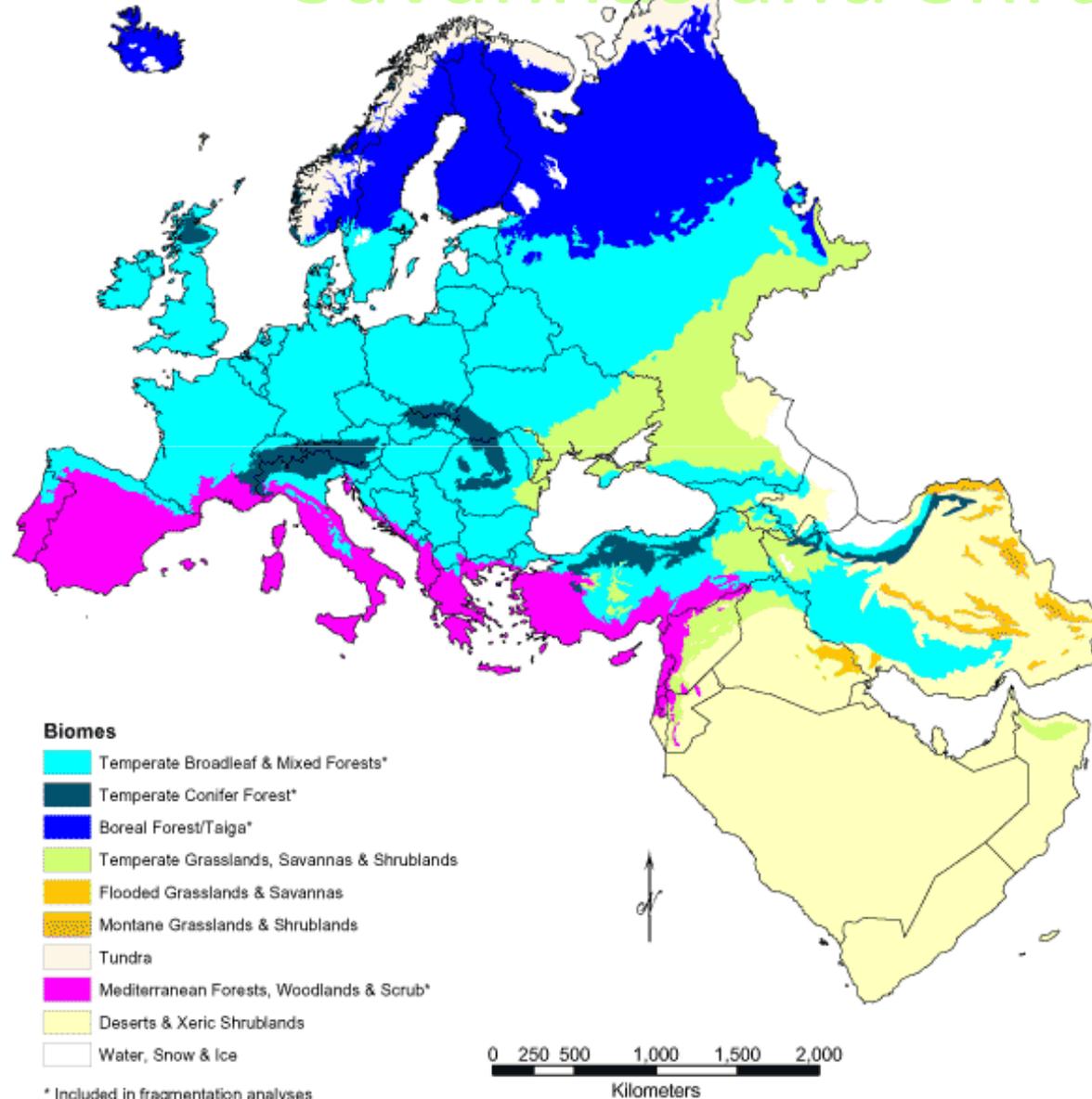
Hydromorphological quality elements:

- General data lack

Chemical and physico-chemical elements:

- Lake transparency, acidification, nutrients, pollution

Temperate Grasslands, Savannas and Shrublands



* Included in fragmentation analyses

Temperate Grasslands, Savannas and Shrublands

Biological quality elements:

- Lack of Data

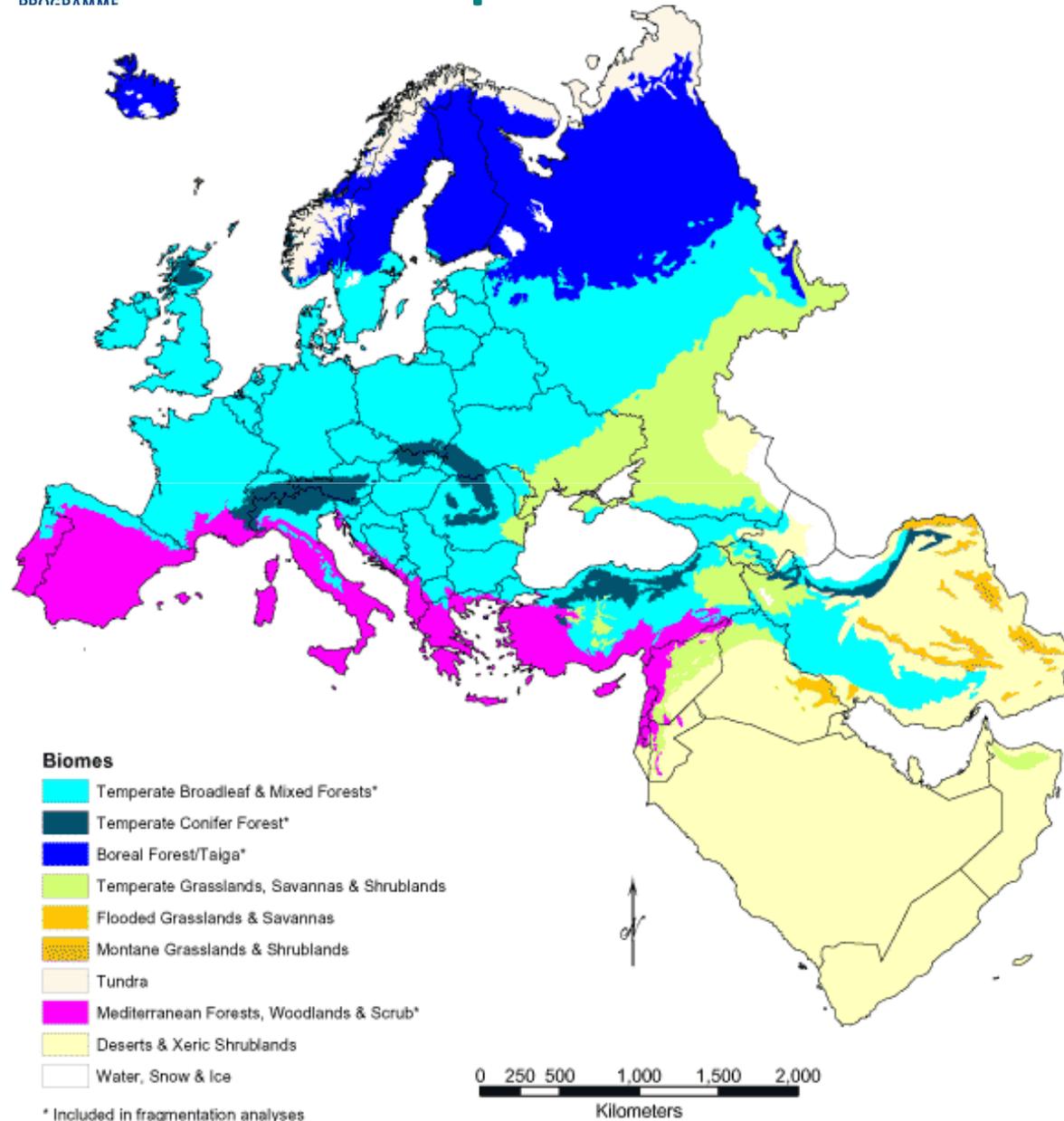
Hydromorphological quality elements:

- Lack of data

Chemical and physico-chemical elements:

- Lake transparency, acidification, nutrients, pollution, oxygenation

Temperate Conifer Forest



* Included in fragmentation analyses

Temperate Conifer Forest

Biological quality elements:

- Lack of Data

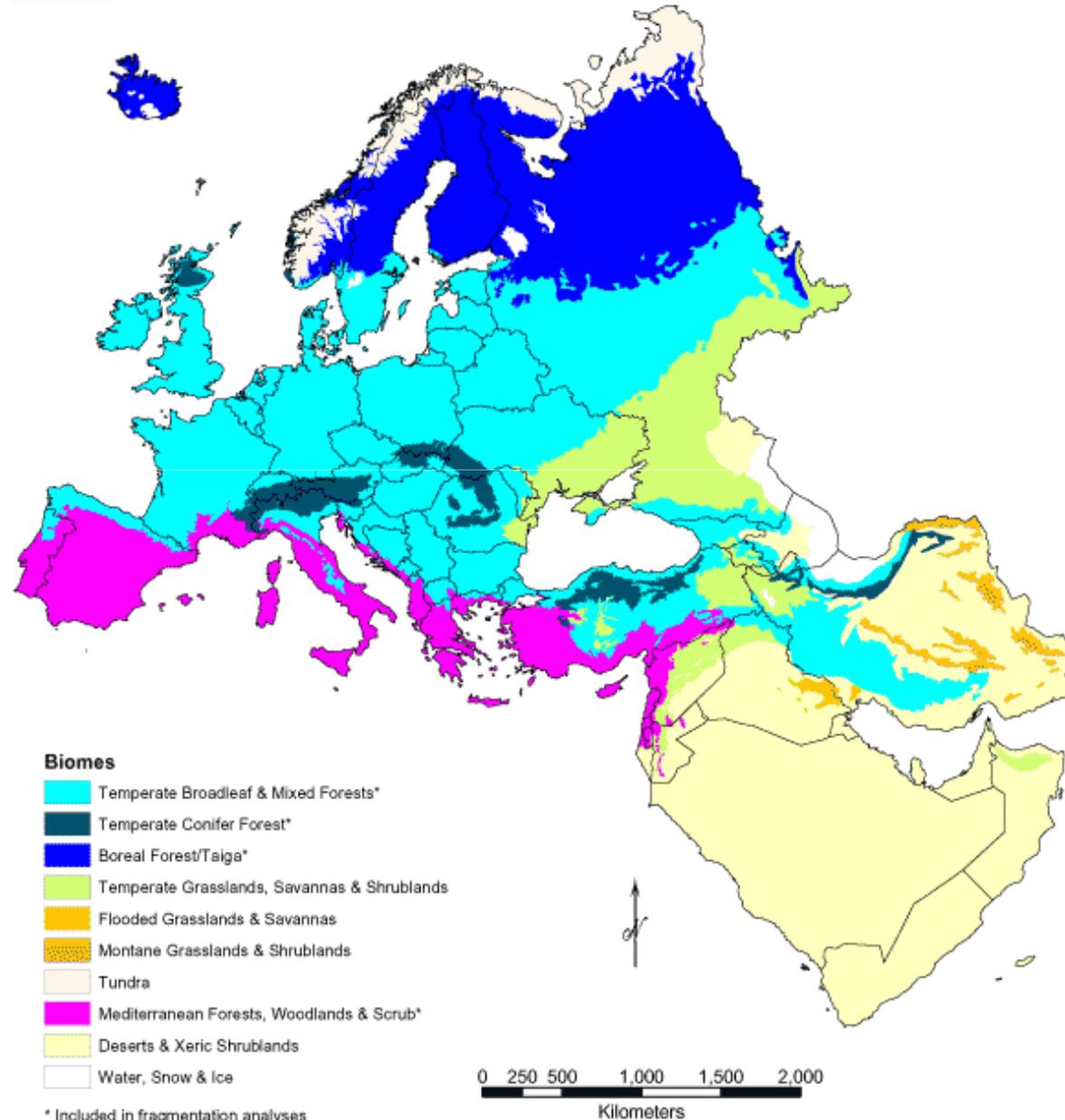
Hydromorphological quality elements:

- Lack of Data

Chemical and physico-chemical elements:

- Lake transparency, acidification, nutrients, pollution, oxygenation

Boreal Forest and Taiga



* Included in fragmentation analyses

Boreal Forest and Taiga

Biological quality elements:

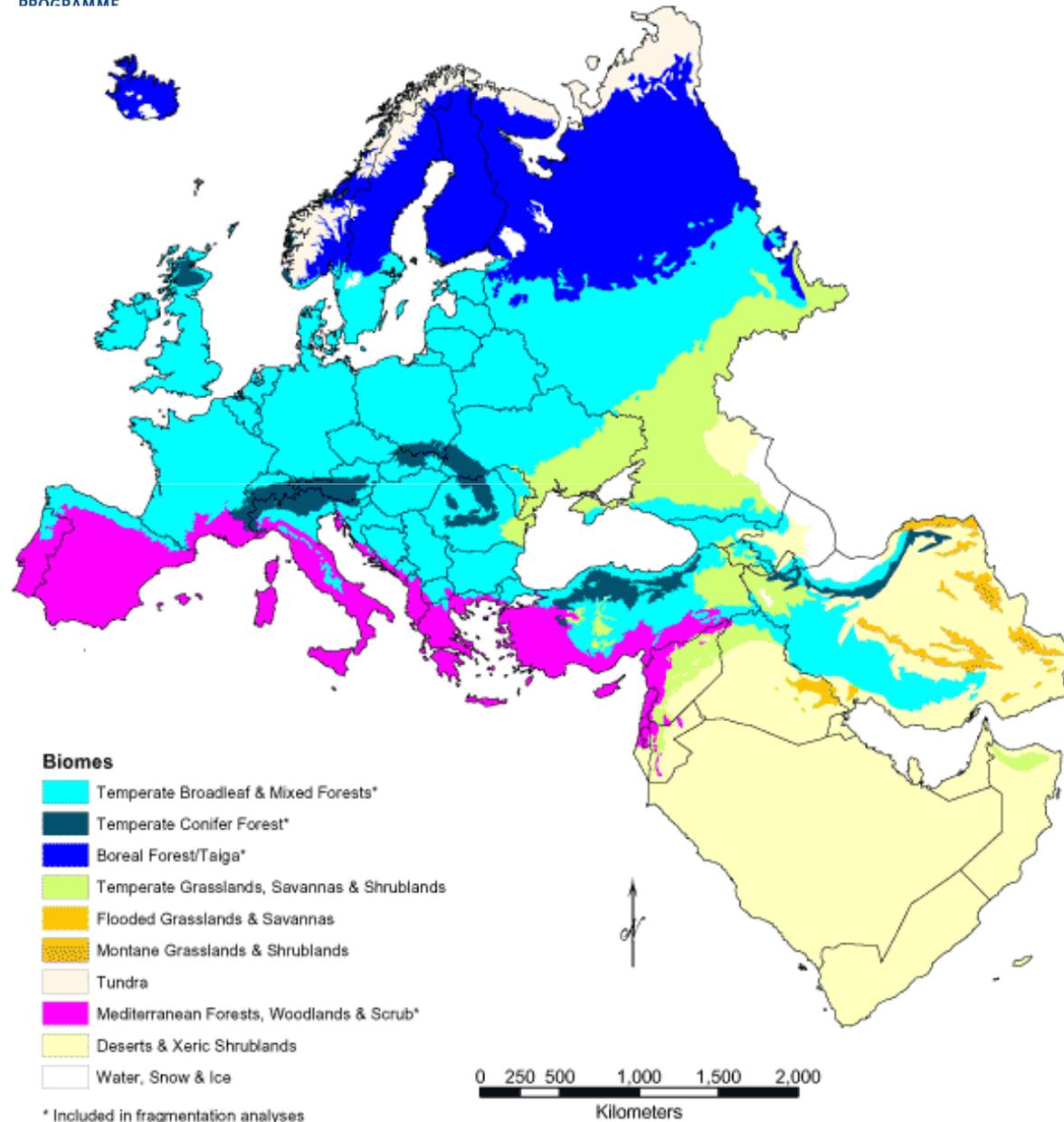
- Aquatic flora

Hydromorphological quality elements:

- Lack of data

Chemical and physico-chemical elements:

- Lake transparency, pollution



* Included in fragmentation analyses

Biological quality elements:

- Aquatic flora

Hydromorphological quality elements:

- Lack of data

Chemical and physico-chemical elements:

- Lake transparency, pollution

Climate
≈ water



Research needs on...

TERRESTRIAL ECOSYSTEMS

- Mountainous and hilly regions and their water-impact problems;

- lowlands, with special regard to unique ecosystems

Thank you!



H3

ist das die Monster-Welle, die dann beim Klimawandel alles verschlingt?

Hydrobotanik; 21.05.2010