



## *To WP3:*

# „AQ- & MET-Measurements“



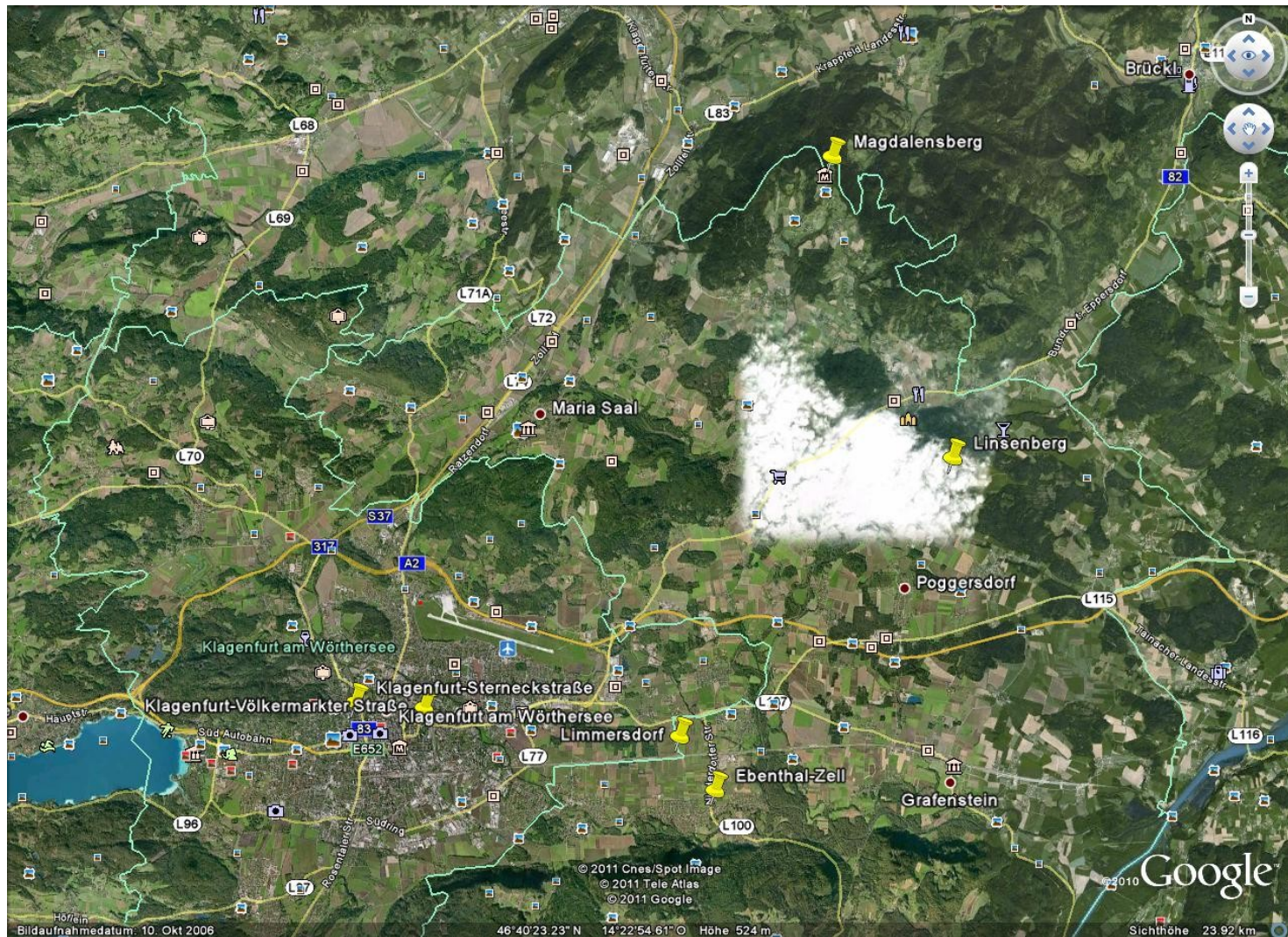
Amt der Kärntner Landesregierung  
Abteilung 15 – Umwelt  
UA Ökologie und Umweltdaten

# OVERVIEW „AQ-Measurements“

| station /<br>timetable                                    | continously                               | from 8.11.2010            | from 20.12.2010<br>till end of 2011 | from 13.1.2011<br>till 15.3.2011 |
|-----------------------------------------------------------|-------------------------------------------|---------------------------|-------------------------------------|----------------------------------|
| <b>Klagenfurt-<br/>Völkermarkter<br/>Straße</b>           | PM10, NO2, NO, NOx, CO,<br>Benzol, B(a)P  | Aethalometer<br>(Aerosol) | ---                                 | HVS*<br>(Analysis TU-Vienna)     |
| <b>Klagenfurt-<br/>Sterneckstraße<br/>(Koschatstraße)</b> | PM10, PM2,5, NO2, NO,<br>NOx, SO2, CO, O3 | ---                       | NH3-PS                              | ---                              |
| <b>Ebenthal-Zell</b>                                      | PM10, NO2, NO, NOx, SO2,<br>CO, B(a)P     | Aethalometer<br>(Aerosol) | ---                                 | HVS/LVS*<br>(Analysis TU-Vienna) |
| <b>Limmersdorf</b>                                        | PM10, PM2,5, PM 1, NO2,<br>NO, NOx,       | Aethalometer<br>(Aerosol) | NH3-PS                              | HVS*<br>(Analysis TU-Vienna)     |
| <b>Linsenberg</b>                                         | ---                                       | ---                       | NH3-PS                              | ---                              |
| <b>Magdalensberg</b>                                      | ---                                       | ---                       | NH3-PS                              | ---                              |

\* ... maybe repeated in summer 2011 for a short period (14d)?

# MAP „AQ-Measurements“



# OVERVIEW „MET-Measurements“



| station                    | height<br>[m ASL] | latitude<br>[deg] | longitude<br>[deg] | parameters                   |       | time resolution | quality check |
|----------------------------|-------------------|-------------------|--------------------|------------------------------|-------|-----------------|---------------|
| Ebenthal-Zell              | 422               | 46,610            | 14,390             | WIRI,WIGE,BOE,LUTE,LUFE      | 1/2 h | no              |               |
| RASS Limmersdorf           | 426               | 46,620            | 14,389             | see below                    |       |                 |               |
| KLAGENFURT - Koschatstr.   | 440               | 46,626            | 14,297             | WIRI,WIGE,BOE,LUTE,LUFE      | 1/2 h | no              |               |
| KLAGENFURT - Völkerm. Str. | 445               | 46,620            | 14,317             | WIRI,WIGE,BOE,LUTE,LUFE      | 1/2 h | no              |               |
| TP Flughafen*              | 450               | 46,650            | 14,330             | WIRI,WIGE,BOE,LUTE,LUFE,GSTR | 1/2 h | no              |               |
| KLAGENFURT - Kreuzbergl    | 550               | 46,631            | 14,293             | WIRI,WIGE,BOE,LUTE,LUFE      | 1/2 h | no              |               |
| TP Eberdorf                | 660               | 46,713            | 14,286             | WIRI,WIGE,BOE,LUTE,LUFE,GSTR | 1/2 h | no              |               |
| TP Göriach                 | 840               | 46,721            | 14,417             | WIRI,WIGE,BOE,LUTE,LUFE      | 1/2 h | no              |               |
| TP Magdalensberg           | 1050              | 46,730            | 14,427             | WIRI,WIGE,BOE,LUTE,LUFE,GSTR | 1/2 h | no              |               |

WIRI ... wind direction

WIGE ... wind speed

BOE ... maximum 2s peak gust

LUTE ... air temperature

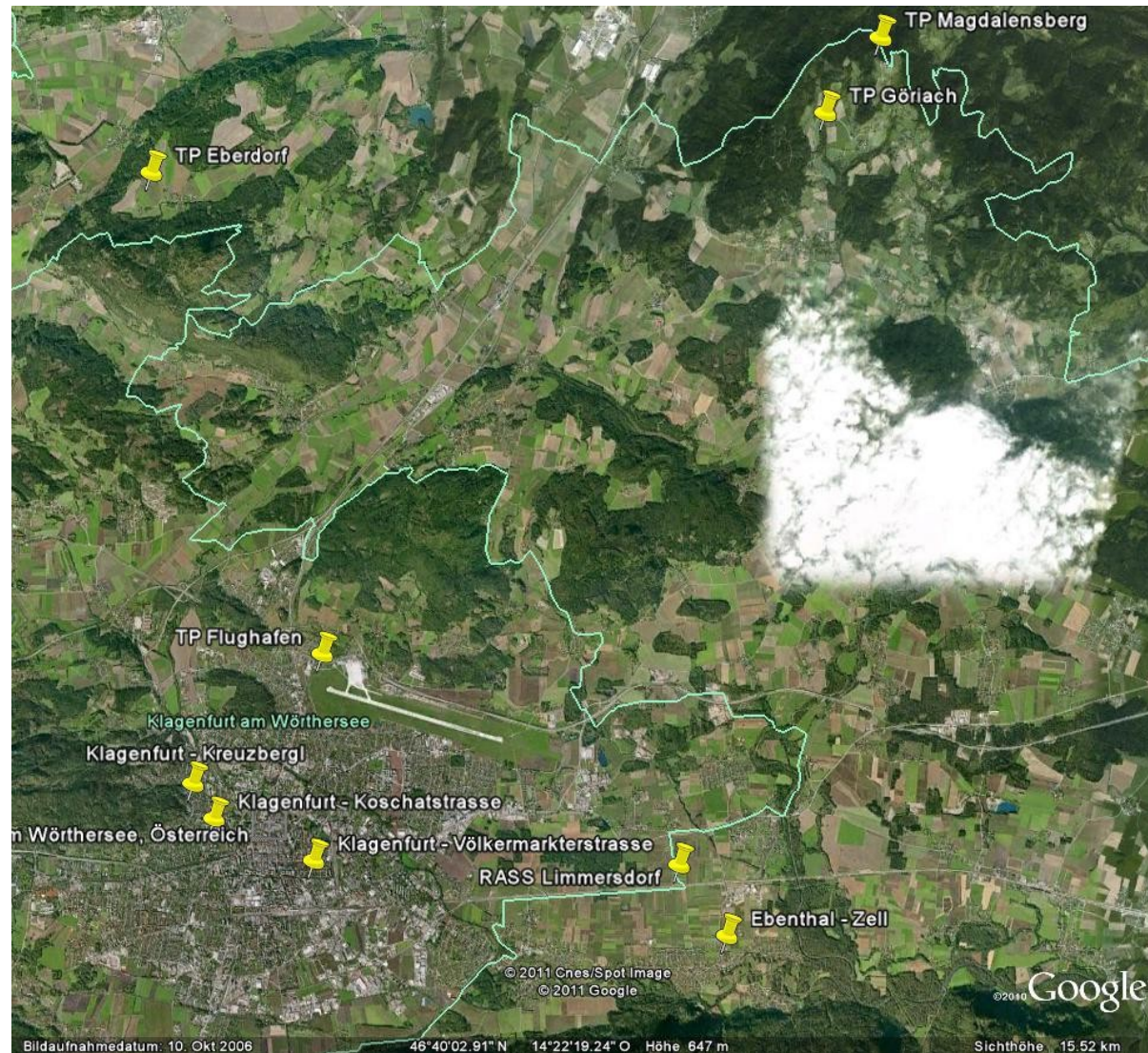
LUFE ... air humidity

GSTR ... global radiation

RASS ... temperature profile up to about 500 m ASL, 3D wind up to 1000 m ASL and turbulent wind components  $u^*$ ,  $v^*$ ,  $w^*$

\* TP Flughafen is provided by the ZAMG. Quality checked measurements with a temporal resolution of 10 minutes can be ordered.

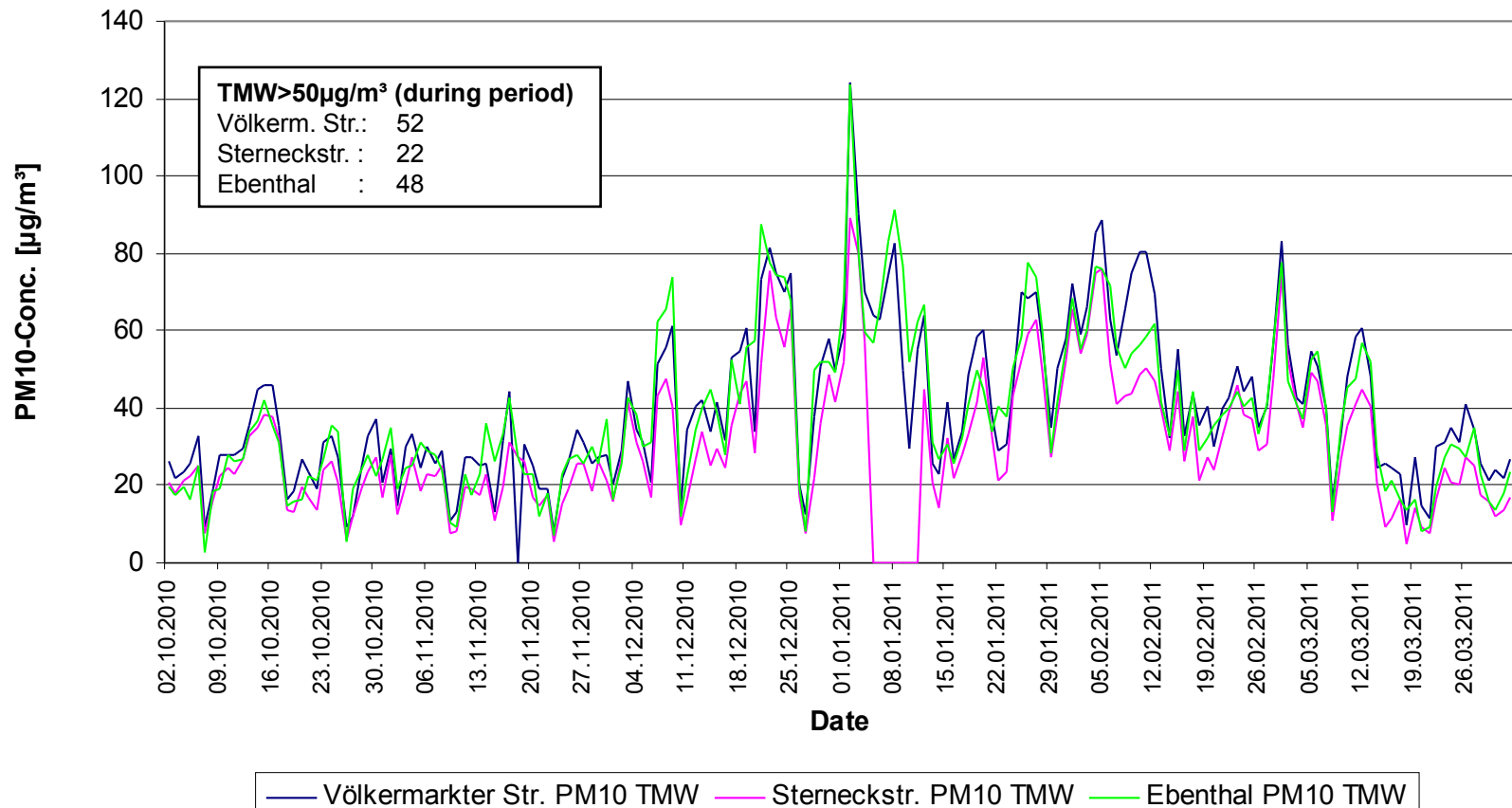
# MAP „MET-Measurements“



# DIAGRAMS

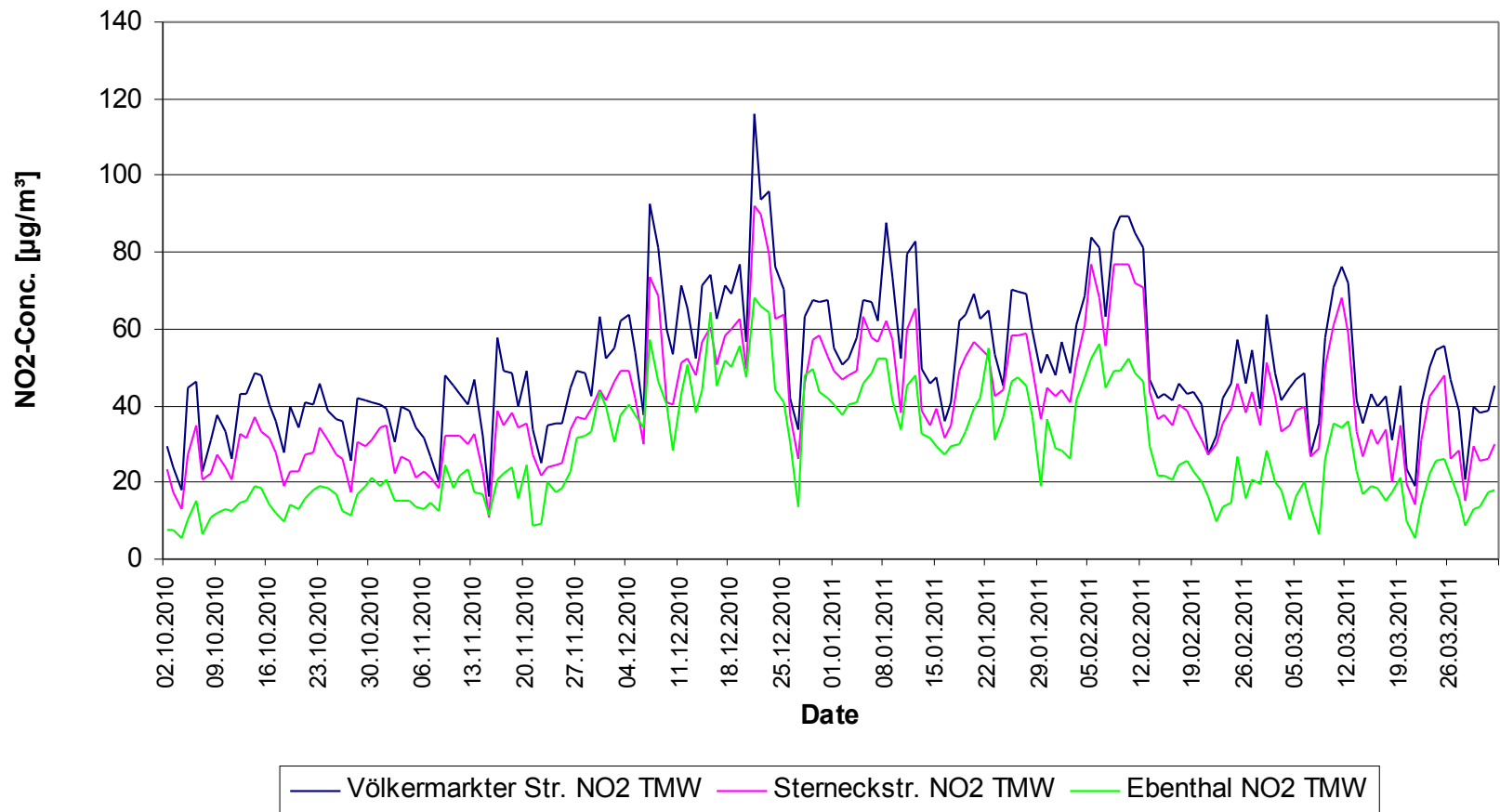


## Concentrations PM10 (daily mean) October 2010 – March 2011

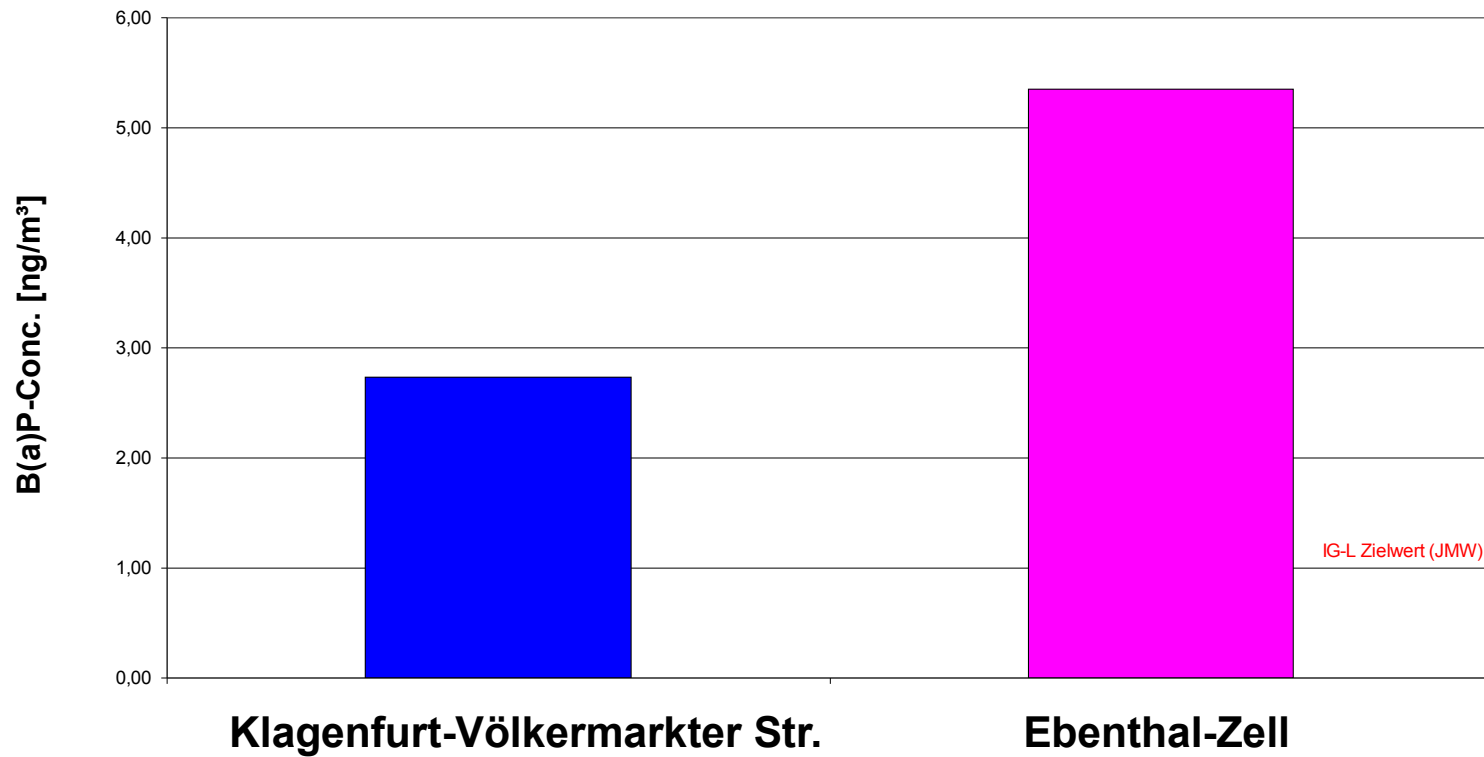


# DIAGRAMS

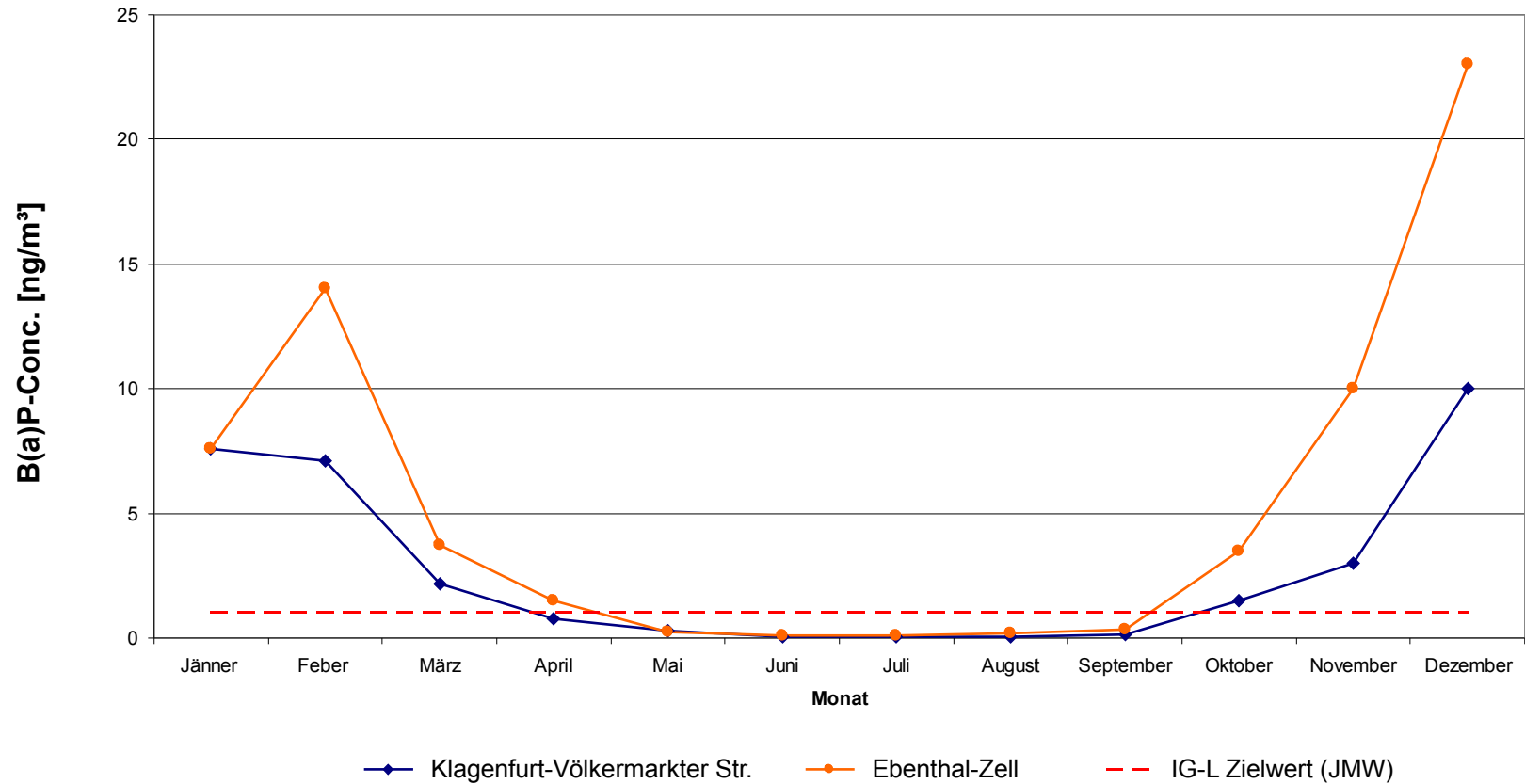
**Concentrations NO<sub>2</sub> (daily mean) October 2010 – March 2011**



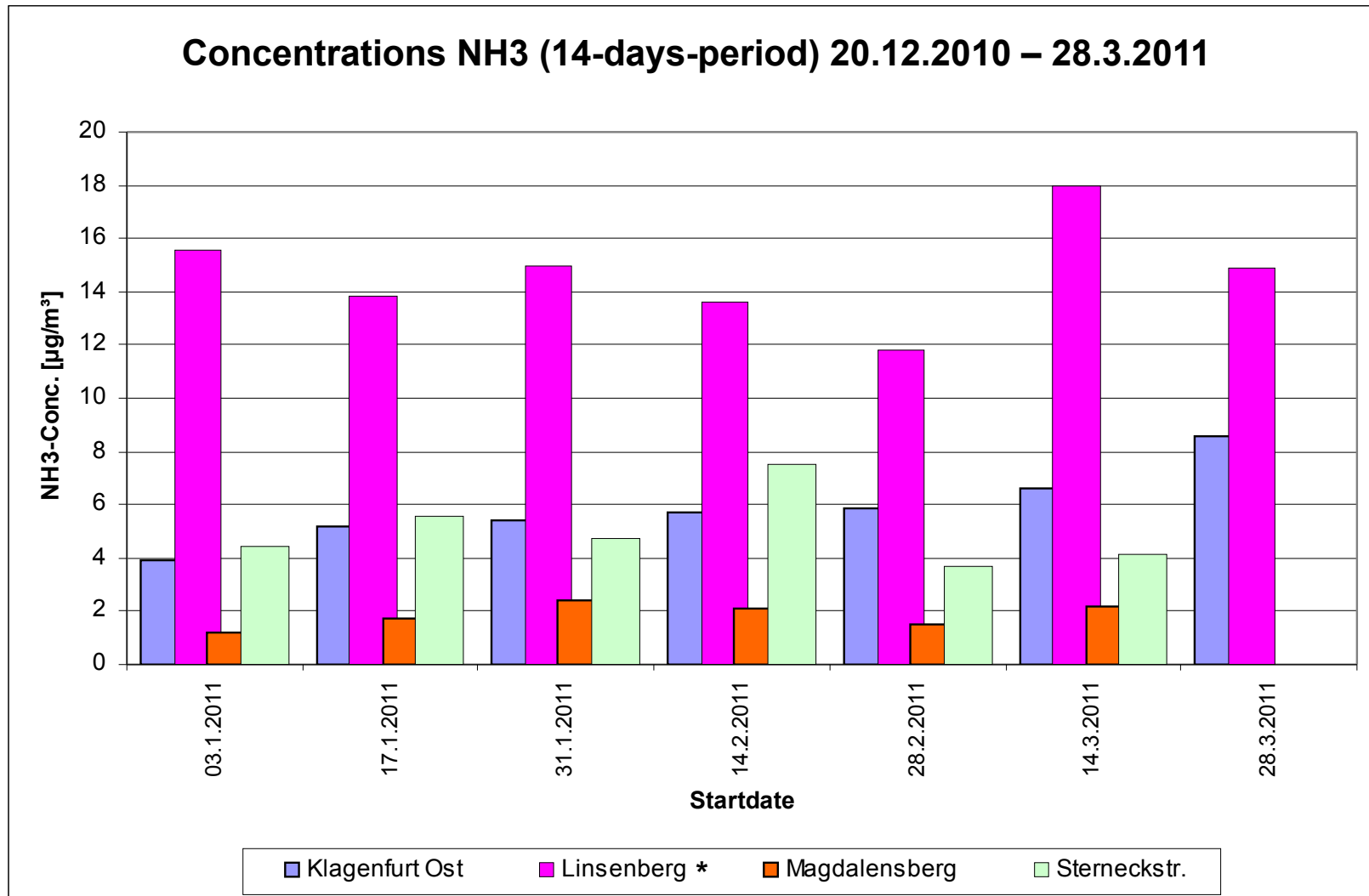
**Concentrations B(a)P (annual mean) 2010**



## Concentrations B(a)P (monthly mean) 2010



# DIAGRAMS



\*... reference station with several pig fattening farms in the neighborhood

# Thank you very much for your attention!



Amt der Kärntner Landesregierung  
Abteilung 15 – Umwelt  
UA Ökologie und Umweltdaten

[www.umwelt.ktn.gv.at/luft/index.htm](http://www.umwelt.ktn.gv.at/luft/index.htm)