

ANNEX No. 2:

**Description of data set extracted from the Austrian TAMOS system which
will be transmitted to SUJB**

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1. TAMOS emergency response package

TAMOS is the main Austrian emergency response package for long-range dispersion predictions and trajectories which has been developed by the Austrian Central Geophysical and Meteorological Institute (ZAMG). The standard meteorological prognostic input data are ECMWF fields. Identical program packages of TAMOS are installed at ZAMG in Vienna and at the BMLFUW.

2. Prognostic meteorological data

A data set of meteorological prognostic data for the Temelin and Dukovany site could be transmitted from BMLFUW, Vienna to SUJB, Prague. This data set will be extracted from the prognostic data (ECMWF fields) used as input for the TAMOS system prepared by the Austrian meteorological service (ZAMG).

The following data will be transmitted:

- wind direction in degrees,
- wind rate in m/s (in 80 m above the terrain),
- rain intensity in mm/h,
- Pasquill category of stability (A - F)

Table: Example of data set transmitted from Vienna to Prague: prognosis of meteorological data for the site Temelin and Dukovany for every full hour and in consecutive hours up to time +12 h:

time stamp	19:00:00, 13.10.2003
+ 1h	
wind direction	230
wind rate	3.2
rain intensity	0
category	D
+ 2h	
wind direction	200
wind rate	1.8
rain intensity	0
category	D

etc.

+ 11h	
wind direction	290
wind rate	5.8
rain intensity	0.3
category	F
+ 12h	
wind direction	270
wind rate	4.8
rain intensity	1.4
category	F

3. TAMOS Results

During emergencies and exercises with real or hypothetical radioactive atmospheric releases at Temelin and Dukovany the following standard results of the TAMOS system installed at BMLFUW will be transmitted to SUJB:

- Maps for the wind trajectories in Europe obtained by the TAMOS trajectory model FLEXTRA
- Maps for the long-range dispersion predictions obtained by the TAMOS model FLEXPART (Isolines for time integrated near surface air concentrations, deposition and precipitation)

The following figures present examples for the results which could be transmitted

Figure 1. Long-range trajectories from TAMOS

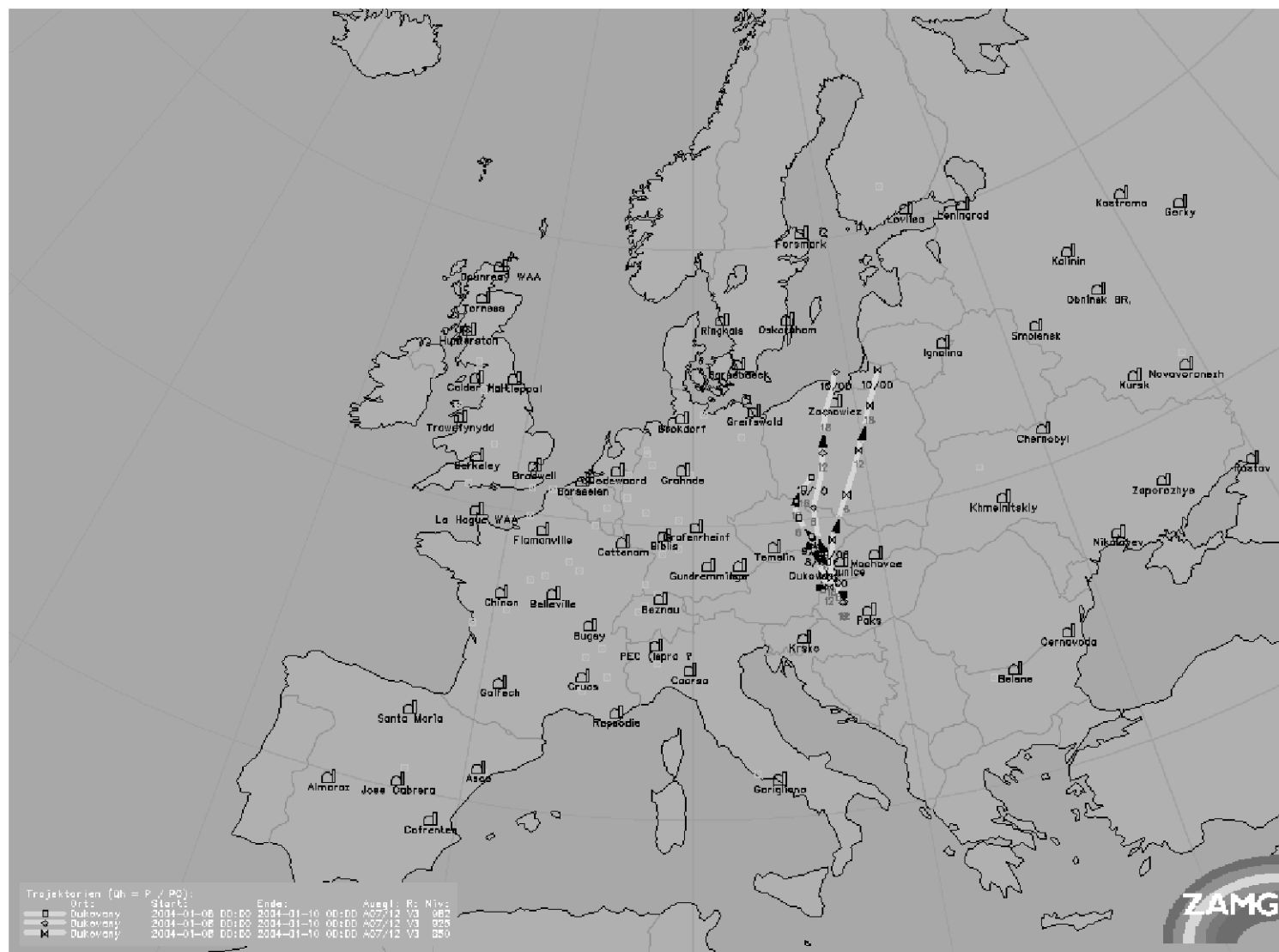


Figure 2. Time integrated near surface air concentrations [Bq/m³], after 24h

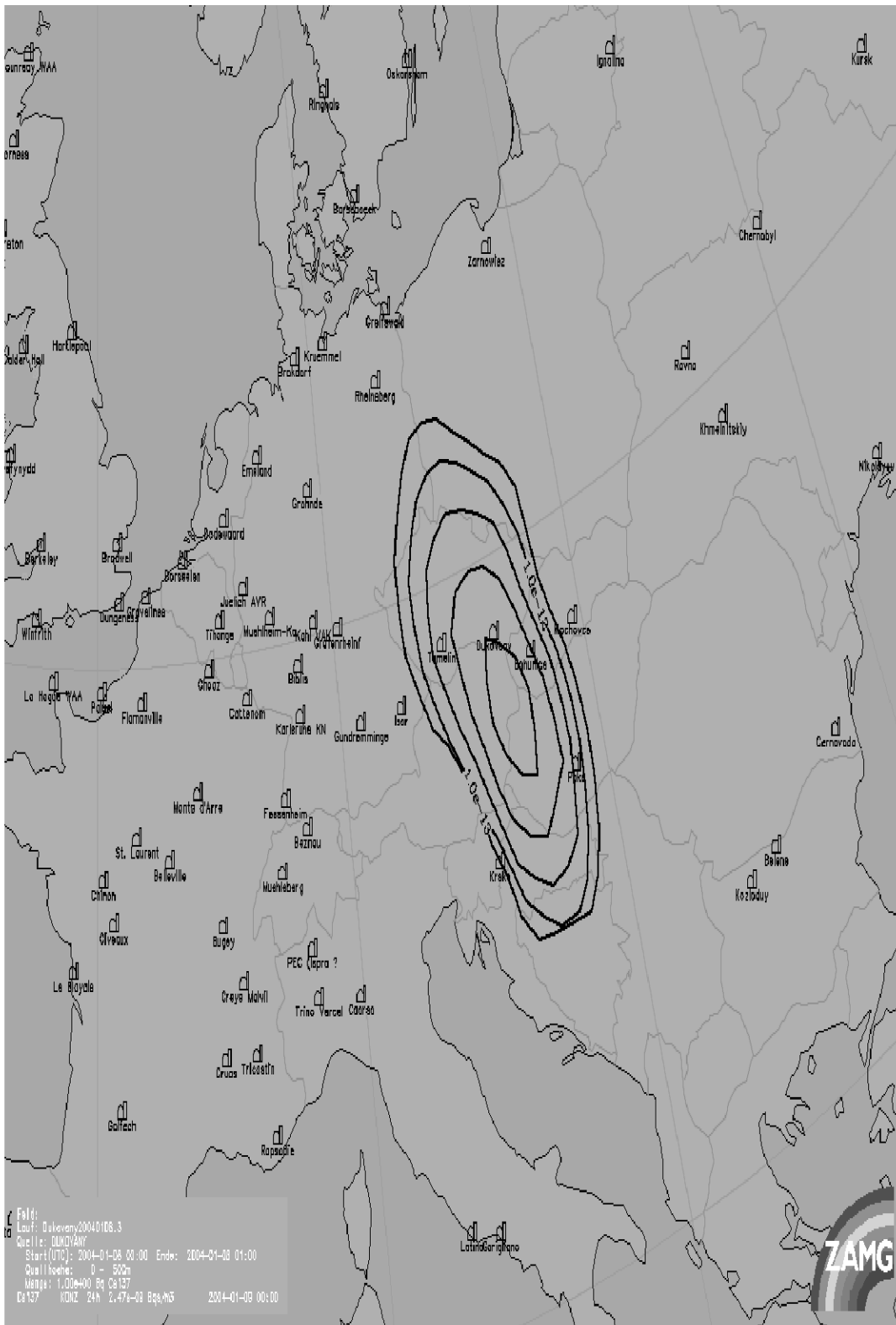


Figure 3. Total Deposition [Bq/m²], after 24h

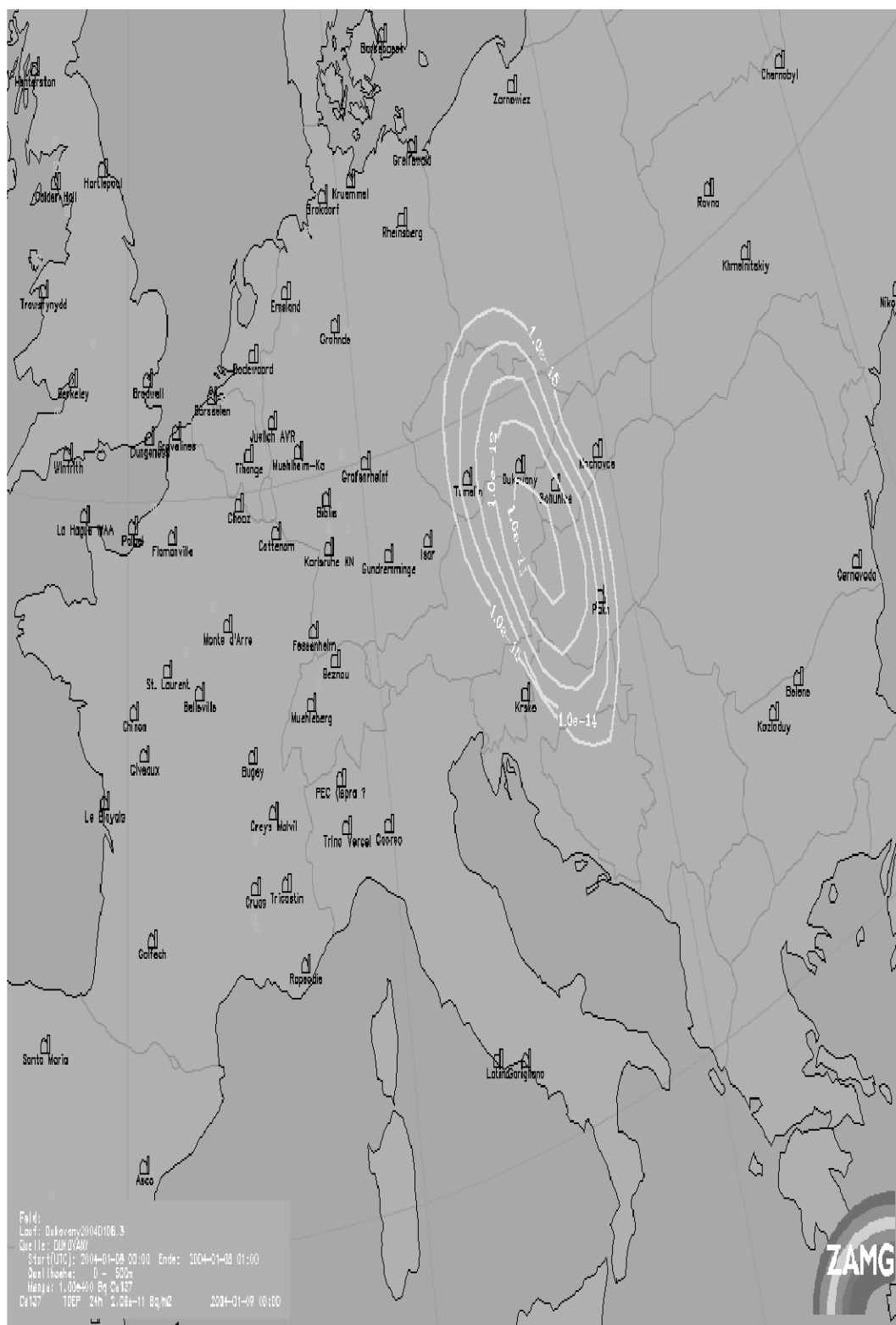


Figure 4. Time integrated precipitation rate [mm], after 24h

