

Chernobyl data: rainfall in Switzerland

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ABSTRACT

The data contain rainfall measurements from Switzerland on the 8th of May 1986. The dataset was used for the Spatial Interpolation Comparison 97 as a testcase for comparing different spatial interpolation methods.

DIGITAL ELEVATION MODEL OF THE SWITZERLAND AREA

Raw Data /book/fun/chernobyl/elevation.HH

Geometry

```
/data/fun/chernobyl/elevation.HH:
```

```
in="stdin"
```

```
expands to in="stdin"
```

```
esize=4
```

```
n1=376 n2=253 n3=1 n4=1
```

```
95128 elem
```

```
380512 bytes
```

```
d1=1.00997 d2=1.00997 d3=1 d4=1
```

```
o1=-185.556 o2=-127.262 o3=0 o4=0
```

```
label1=W-E (km)
```

```
label2=N-S (km)
```

History of Data Provided by USGS: <http://edcwww.cr.usgs.gov/>

ALL RAINFALL DATA

Raw Data /book/fun/chernobyl/alldata.HH

Geometry

```
/data/fun/chernobyl/alldata.HH:
```

```
in="stdin"
```

```
expands to in="stdin"
```

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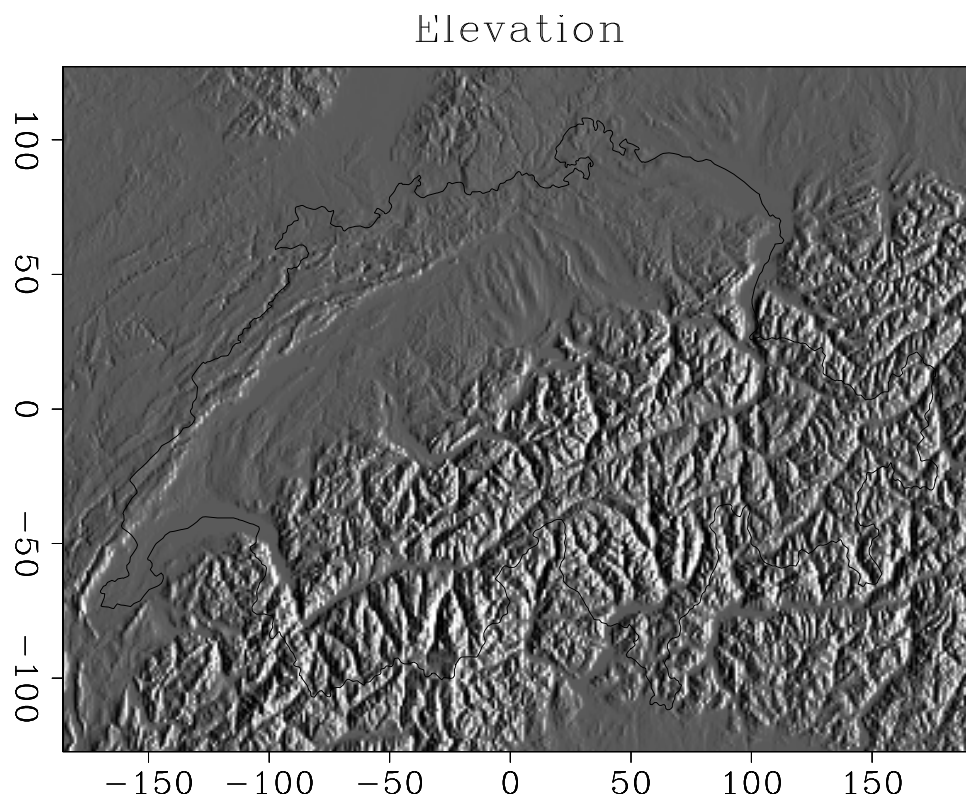


Figure 1: Digital Elevation Model of Switzerland and the country borders. The country borders are extracted from the Digital Chart of the World (DCW) provided by ESRI. `chernobyl-elev` [ER]

```

esize=4
n1=3   n2=467  n3=1   n4=1           1401 elem           5604 bytes
d1=1   d2=1   d3=1   d4=1
o1=5   o2=5   o3=0   o4=0
label1=N-S (km)
label2=W-E (km)

```

History of Data Rainfall measurements (in 1/10 mm) made in Switzerland on the 8th of May 1986. Distributed to the participants of the Spatial Interpolation Comparison 97 (Dubois, 1999).

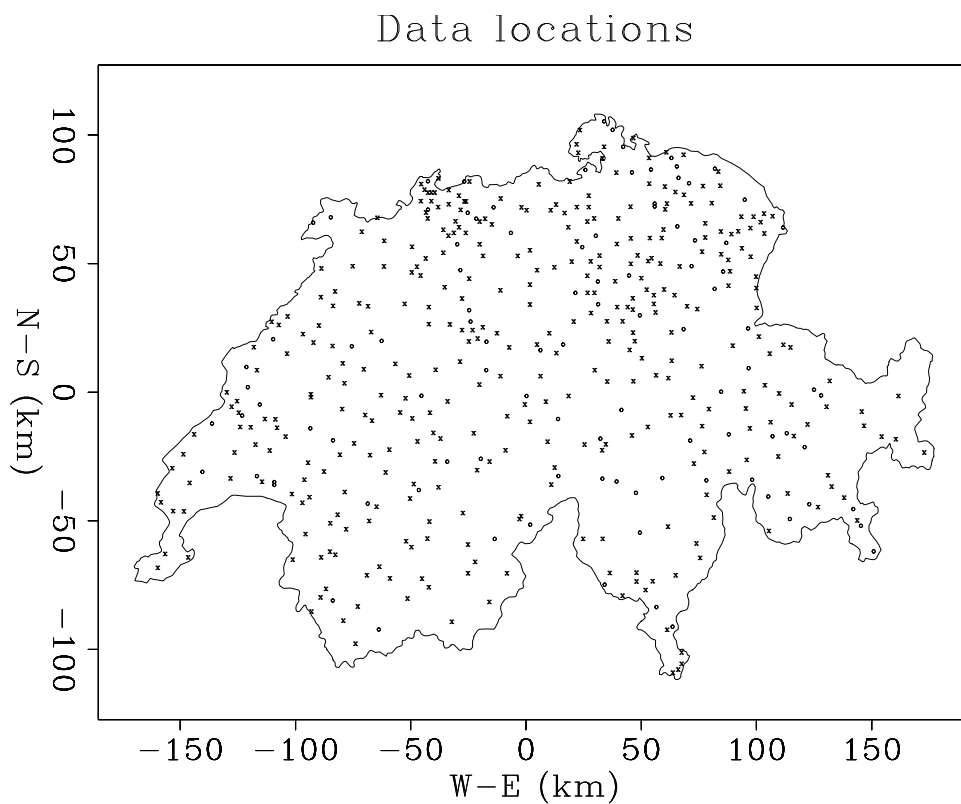


Figure 2: Data locations for all 467 measurements. `chernobyl-data` [ER]

OBSERVED RAINFALL DATA

Raw Data /book/fun/chernobyl/obsdata.HH

Geometry

/data/fun/chernobyl/obsdata.HH:

in="stdin"

```

expands to in="stdin"
esize=4
n1=3    n2=100  n3=1    n4=1                300 elem                1200 bytes
d1=1    d2=1    d3=1    d4=1
o1=5    o2=5    o3=0    o4=0
label1=N-S (km)
label2=W-E (km)

```

Problem Spatial interpolation.

History of Data 100 rainfall measurements randomly extracted from the total 467 locations for the Spatial Interpolation Comparison (Dubois, 1999).

Observed data locations

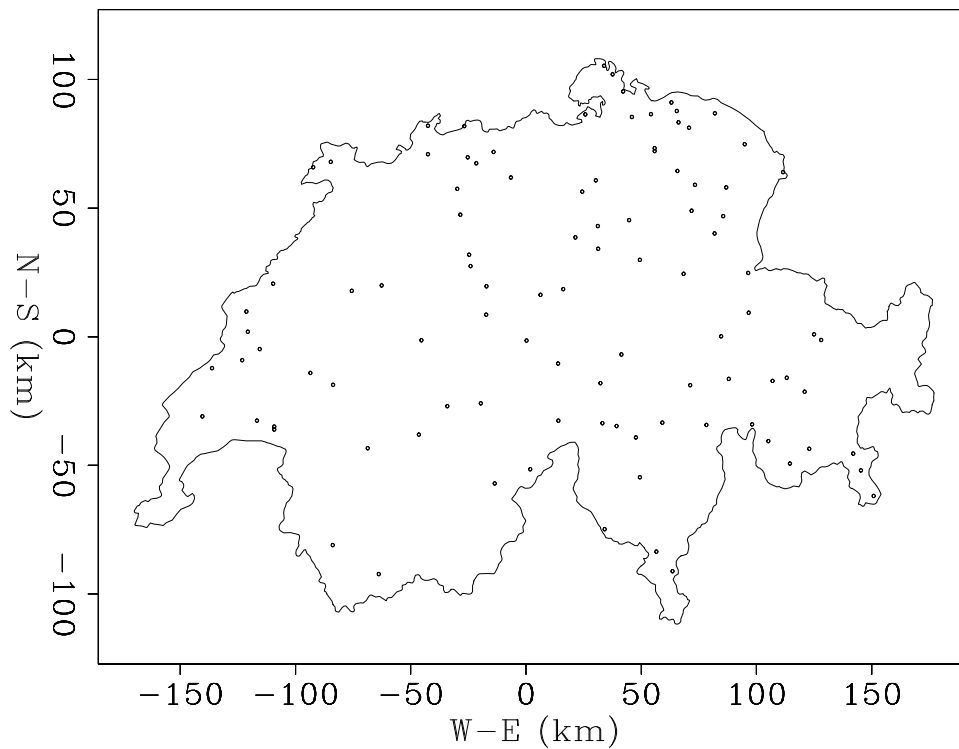


Figure 3: Data locations for selected 100 measurements. `chernobyl-obsdata` [ER]

REFERENCES

Dubois, G., 1999, Spatial interpolation comparison 97: Foreword and introduction: Journal of Geographic Information and Decision Analysis, **2**, 1–10, http://publish.uwo.ca/~jmal-czew/gida_4.htm.

