



Geochemical atlas of European groundwater: bottled water



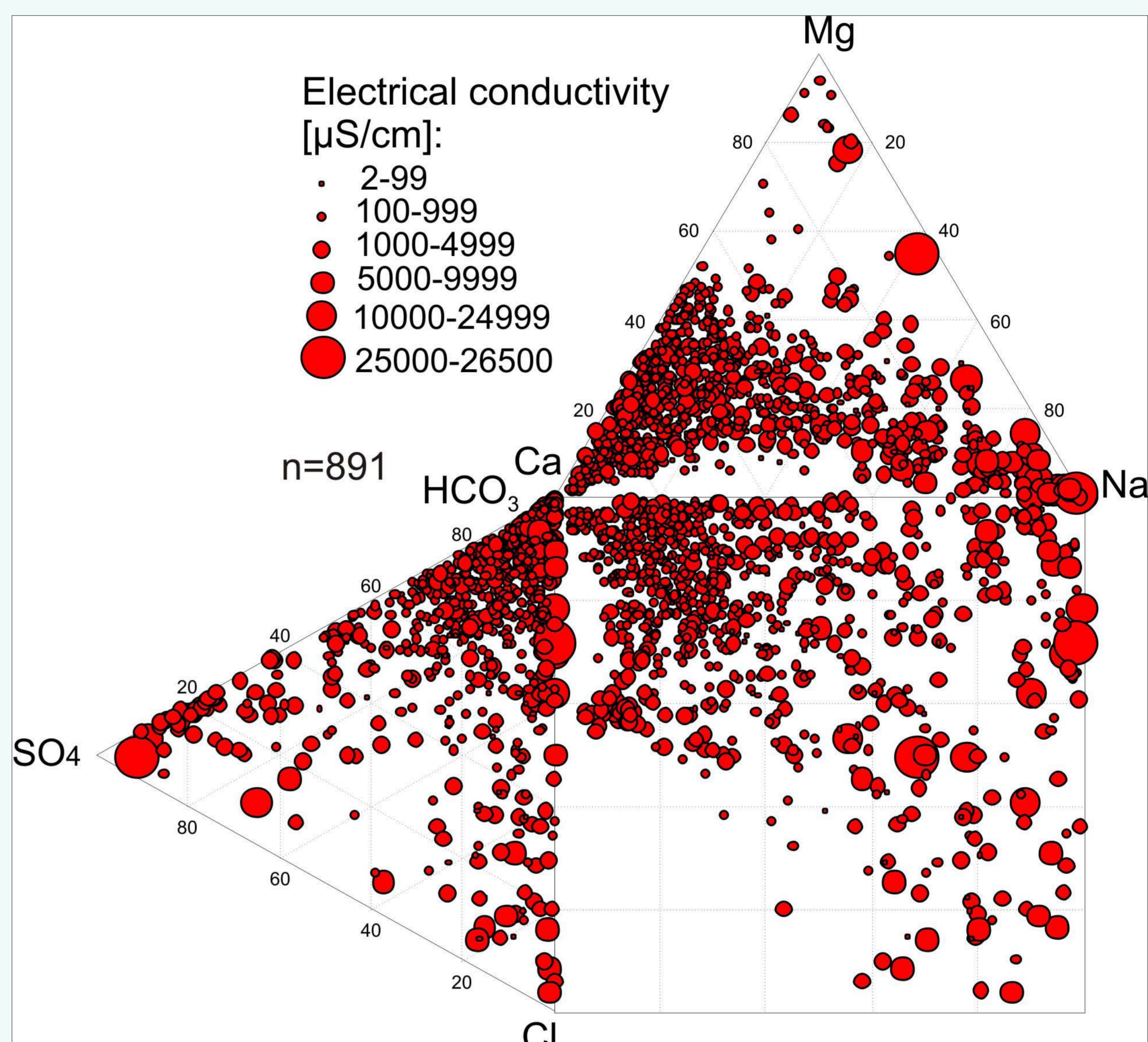
Clemens Reimann, Manfred Birke, Alecos Demetriades, CHRISTOPHER C JOHNSON and the *EGG Project Team



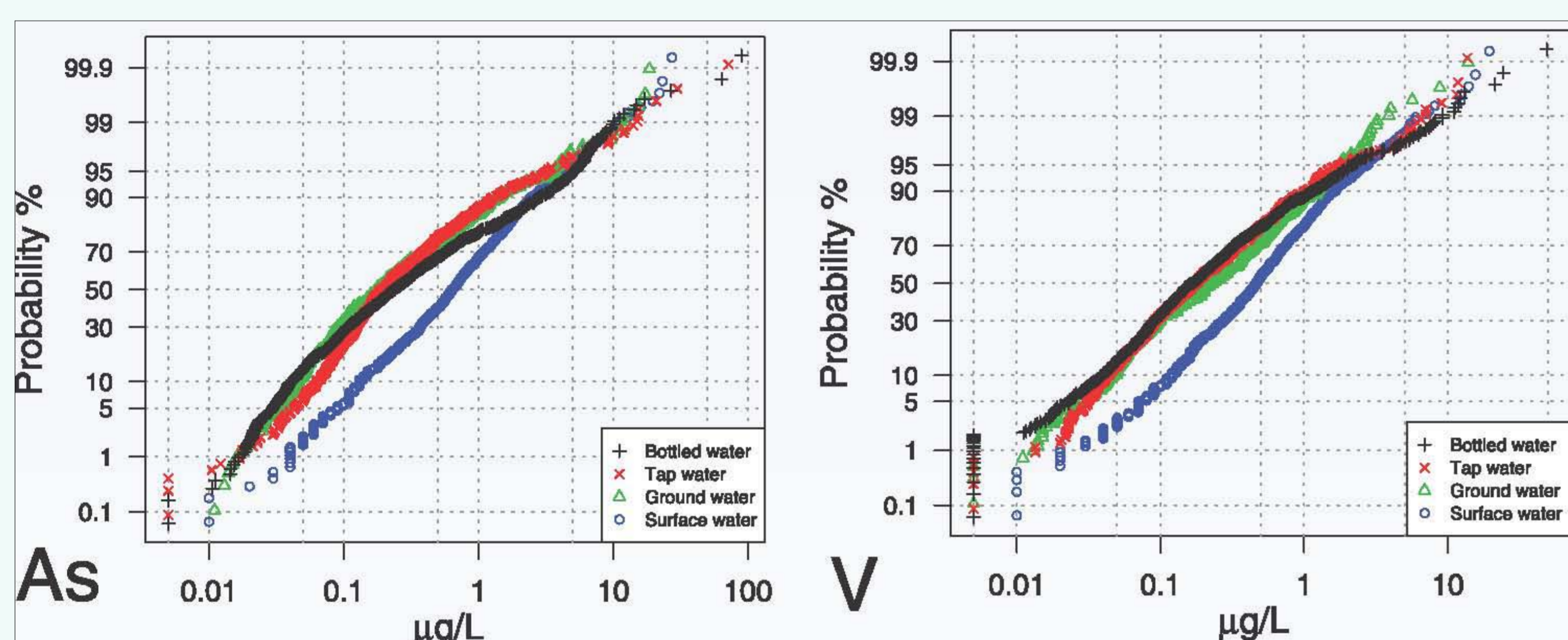
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1785 "samples" of bottled water were purchased in supermarkets all over Europe, representing 1247 wells at 884 locations.

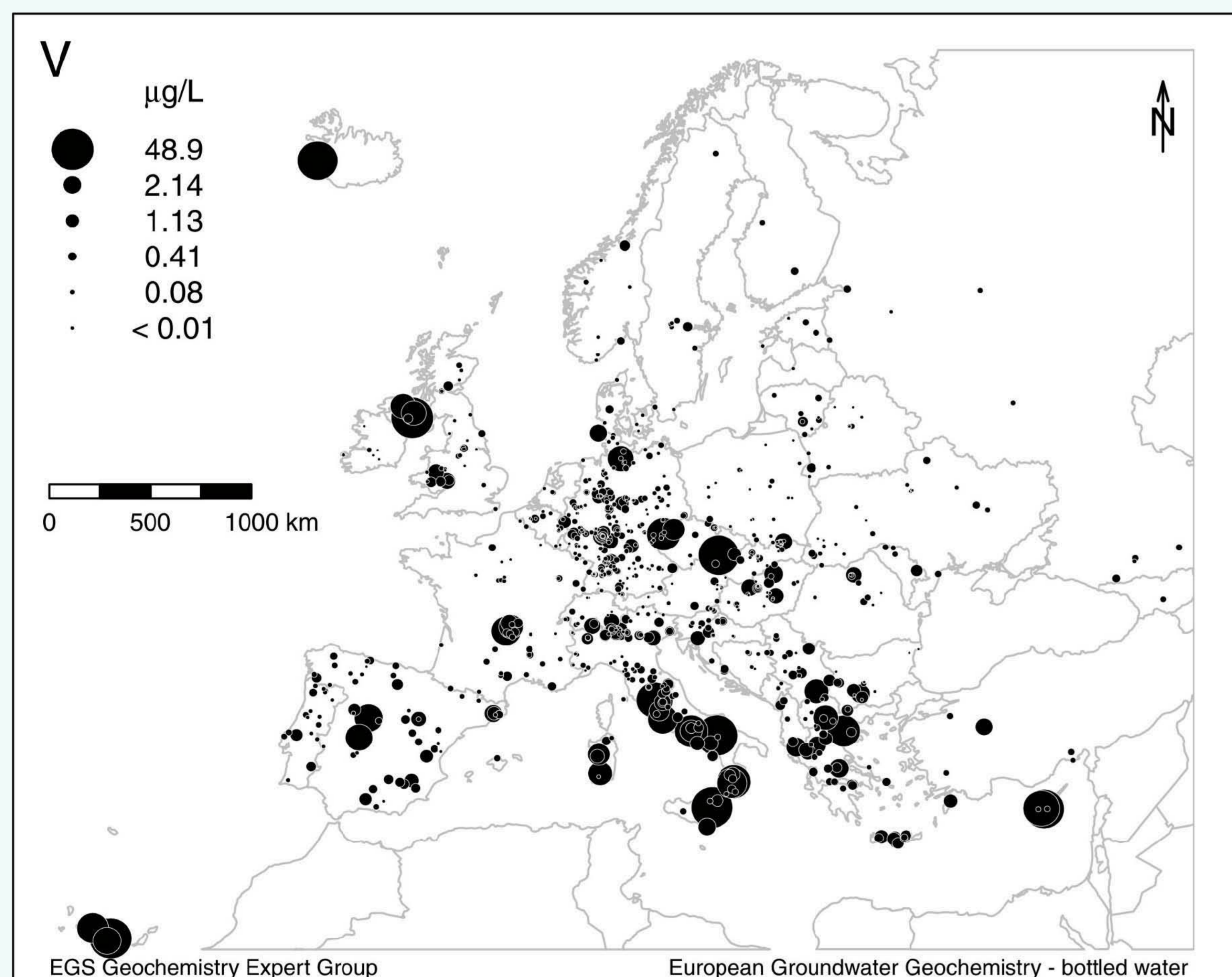
All samples were analysed for more than 70 parameters. The data set is used to gain a first impression about the natural concentration of, and variation in, the determined chemical elements and additional parameters in groundwater at a European scale.



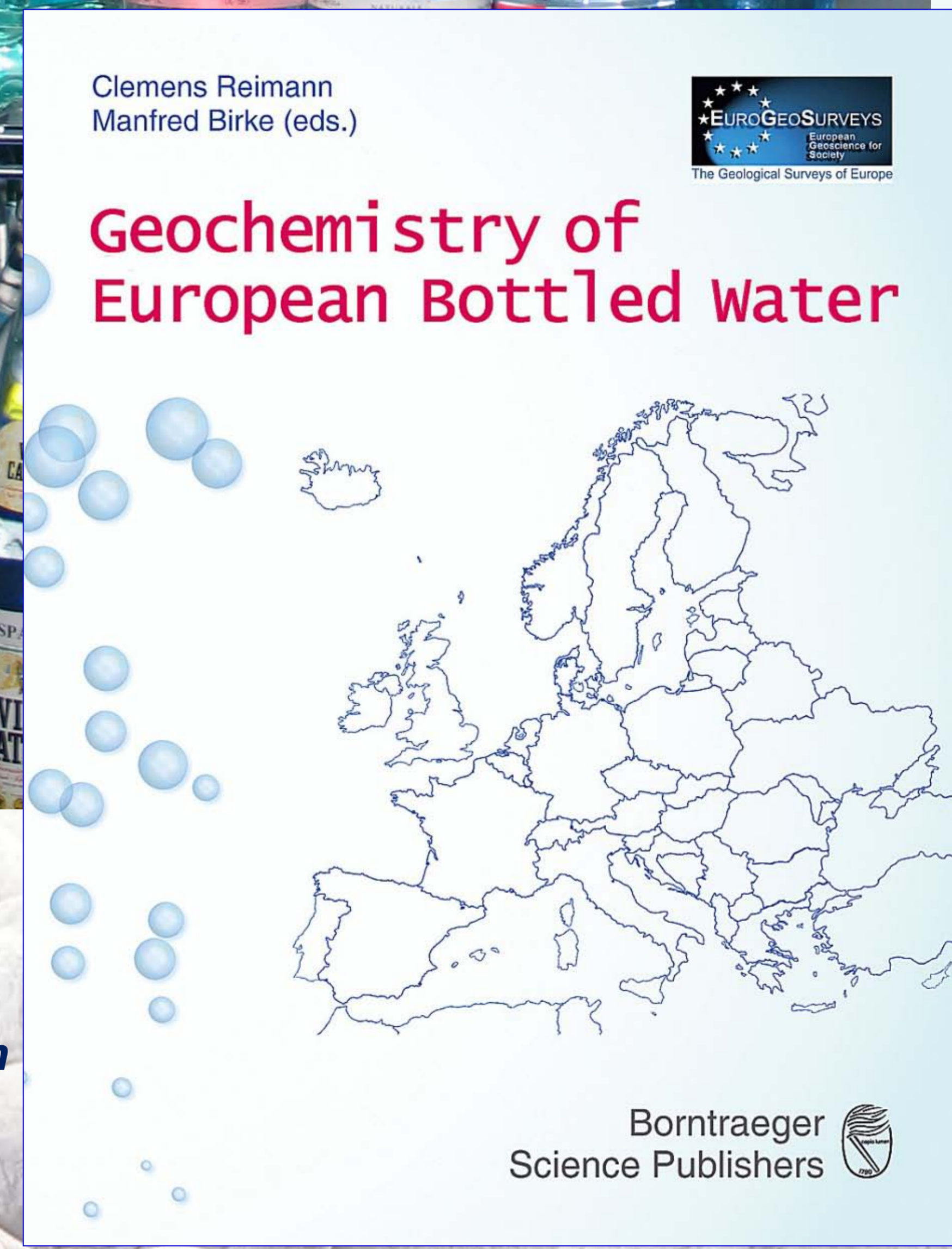
The Durov diagram shows the enormous spread of water types being sold as bottled water in Europe.



The concentrations of 70 elements in four data sets (European bottled water, surface water and tap water and Norwegian bedrock groundwater) are compared.



The regional distribution of vanadium in 884 European bottled water samples demonstrates that high values are connected to active volcanic areas and the occurrence of basalts.



Results are presented in a Geochemical Atlas published by Borntraeger Science Publishers in September 2010; 268 pages, 28 figures, 6 tables, 2 appendices, 67 element maps, and a CD-ROM with all the analytical data, maps and diagrams <http://www.schweizerbart.de/publications/detail/artno/001201002#>

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