Data Analysis and Data Modelling				
COURSE LEADER	Paul-André Salamin, Swiss Federal Statistical Office			
OBJECTIVE(S)	The participants are introduced into the methods of data analysis and modelling. Emphasis is given to the way of exploring univariate and multivariate data and applications of known statistical models as multiple linear regression, ANOVA and ANCOVA, as well as some generalized linear models, e.g. logistic regression. The validation of the applied models is treated as an important part of the training.			
TRAINING METHODS	 Lectures and presentations interactive joint statistical modelling of given data Group discussions 			
TARGET GROUP	Junior statisticians of National Statistical Institutes involved in the process of data analysis and modelling.			
ENTRY QUALIFICATIONS	The course is based on some knowledge of basic statistical concepts, such as e.g. confidence intervals and statistical tests. These basic concepts are expected to be known. Good command of English			
EXPECTED OUTPUT	The participants are introduced into the methods of data analysis and modelling.			
CONTENTS	 Exploring data: univariate and multivariate Data transformation Correlation and simple linear regression Multiple linear regression with emphasis on model validation Model building methods ANOVA and ANCOVA Categorical data analysis, log-linear models Logistic regression 			
TRAINERS/ LECTURERS	Professor Jürg Hüsler, Department of Mathematical Statistics (IMSV), University of Bern, Switzerland			
SUGGESTED Reading / preparation	If participants want to discuss a data set, they are asked to prepare their example. If time is left for discussion in the group, a prepared presentation of the example is needed.			
REQUIRED EQUIPMENT	None			
PRACTICAL INFORMATION:				
WHEN	DURATION	WHERE	LANGUAGE	REGISTRATION
8-12 September 2008	5 days	Swiss Federal Statistical Office Neuchâtel	English	Deadline 31.5.2008