IRIS INSTRUMENTS

ON SITE TRAINING ALL AROUND THE WORLD

TRAINING PROGRAMS:

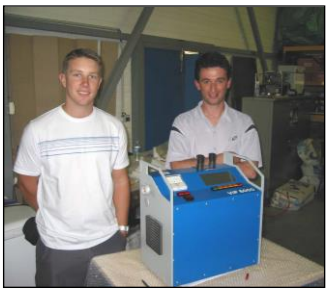
- standard resistivity
- resistivity imaging
- induced polarisation
- electromagnetic profiling
- magnetic resonance sounding

TRAINING:

- IN ORLEANS, FRANCE
- OR AT CUSTOMERS' SITE

PROGRAMS:

- GEOPHYSICAL PROCEDURES
- EQUIPMENT OPERATION
- DATA INTERPRETATION



IRIS Instruments
premises
with technical laboratories
in Orleans, France,
150 km South of Paris

IRIS Instruments courtyard
and near-by test area, Orléans, France

Orléans Cathedral

Chambord Castle

STANDARD RESISTIVITY TRAINING

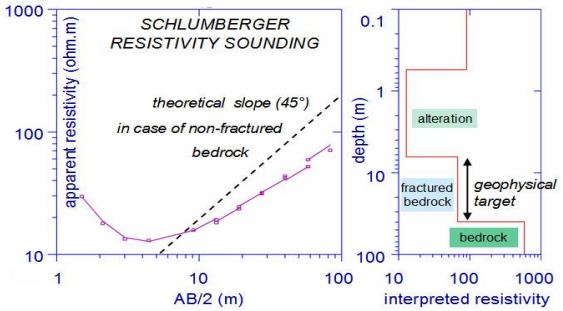
STANDARD RESISTIVITY training program

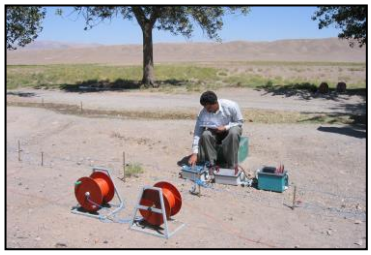
a) principles of electrical methods:
- relation between resistivity and geological formations
- principle of Schlumberger 1D sounding

b) operation of SYSCAL resistivitymeters:
- quality control, stacking process
- field measurements on test site: handling of wires, electrodes, role of ground resistance, safety rules …

c) interpretation of electrical soundings:
- principle of equivalence
- use of 1D inversion software for depth interpretation
- examples of applications in various geological areas

d) maintenance of equipment:
- trouble detection, first level repair of SYSCAL units





RESISTIVITY IMAGING TRAINING

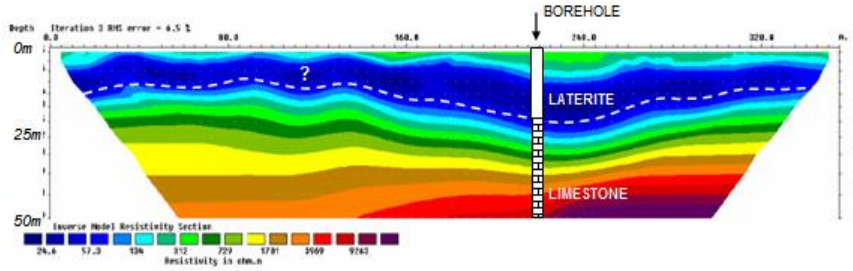
RESISTIVITY IMAGING training program

a) principles of electrical methods:
- relation between resistivity and geological formations
- principle of 2D & 3D multi-electrode measurements
- resistivity monitoring (4D measurements)

b) operation of SYSCAL resistivitymeters:
- sequence creation with ELECTRE II, III, Pro software
- quality control, stacking process
- use of PROSYS software for data display & filtering
- field measurements on test site: handling of wires, electrodes, role of ground resistance, safety rules …

c) interpretation of resistivity images:
- use of 2D/3D inversion for depth interpretation
- examples of applications in various geological areas

d) maintenance of equipment:
- trouble detection, first level repair of SYSCAL units



INDUCED POLARISATION TRAINING

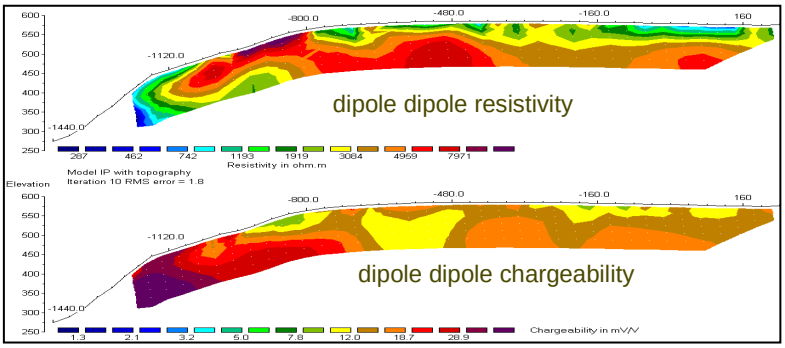
INDUCED POLARIZATION training program

a) principles of induced polarization methods:
- relation between chargeability & geological formations
- main electrode arrays for IP measurements

b) operation of VIP transmitters & ELREC receivers:
- specifications of the motor generator for the VIP
- control of output power, voltage & transmitted current
- safety rules for the operator and the field crew
- synchronisation of the ELREC receiver, quality control through the stacking process and the standard deviation

c) interpretation of resistivity & IP sections:
- examples of applications in various geological contexts
- use of 2D inversion software for depth interpretation of resistivity and chargeability anomalies

d) maintenance of equipment:
- trouble detection, first level repair of VIP transmitters and ELREC receivers



ELECTROMAGNETIC TRAINING

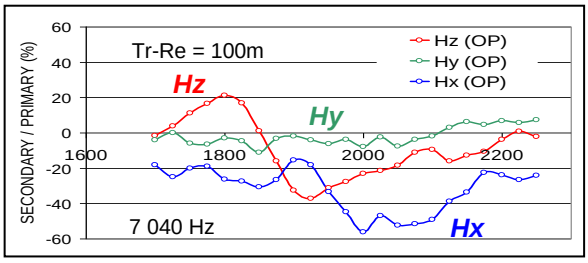
ELECTROMAGNETIC PROFILING training program

a) principles of the electromagnetic method:
- relation between EM parameters & geological formations

b) operation of PROMIS transmitter & receiver:
- selection of parameters: frequencies, spacings, …
- quality control, stacking process
- use of EMSYS software for data display & filtering
- field measurements on test site: handling of transmitter, receiver, wires, batteries

c) interpretation of resistivity & IP sections:
- examples of applications in various geological contexts
- analysis of component anomalies
- use of 1D inversion software for depth interpretation of resistivity soundings

d) maintenance of equipment:
- trouble detection, first level repair of PROMIS equipment, control of batteries



MAGNETIC RESONANCE TRAINING

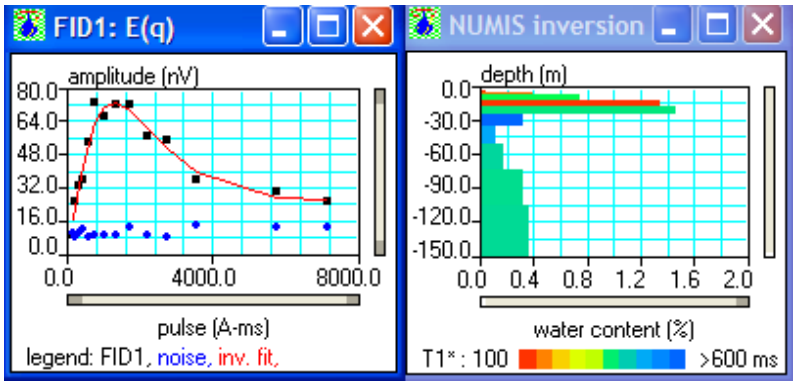
MAGNETIC RESONANCE training program

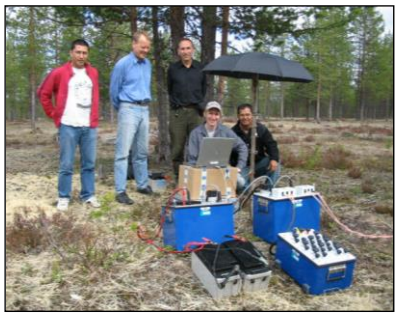
a) principles of the magnetic resonance method:
- relation between MRS and hydrogeological parameters
- principle of depth sounding with MRS
- conditions of application of the MRS method

b) operation of NUMIS systems:
- measurement of Earth's magnetic field
- choice of the loop shape
- use of PRODIVINER software to control the acquisition parameters: frequency, stack number, pulse moments
- field measurements on test site: wire setup, control of quality of the MRS signal, safety rules …

c) interpretation of MRS soundings:
- use of the 1D SAMOVAR software for interpretation of porosity and permeability of layers with depth
- examples of hydrogeological applications in various contexts: alluviums, deeper aquifer, fractured formations

d) maintenance of equipment:
- trouble detection, first level repair of NUMIS units





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