

Addendum to ANNEX I

Identification of landslide phenomena and landslides prone areas into the CKNP and in its buffer zone

The surveying campaign starts in Islamabad where the functioning of the GNSS station installed at the Bahria University was verified. The problem was (and still is) the discontinuity of power supply that does not allow the continuous recording of the receiver. The backup system provided is not sufficient to overcome prolonged interruptions. The collaboration of the Server Administrator Mr. Imran Khan and of the student Shakeel Ahmad helped to point out the solution of the problem.



In Gilgit (right) the same problem arose enhanced by the fact that an external Internet line was not yet available.



The antenna was where we put it two years ago but the internet connection needed to be properly adjusted.

The first field trip was to the Haramosh area. We visited two valleys and two different landslides. To defend from the hot sun Chiara and I decided to buy in Islamabad similar hats.



The first landslide in the valley of Kaltaro and is very similar to the one in Pian di Chiaula that we measured almost two years ago. The main difference is that on the Kaltaro landslide there are no trees and everything can be seen very easily.



The rivers and the Civil Defence camp. If you have no GPS also a rope can be used.



Big cracks everywhere.



After the visit, at lunch-time I had problems sitting down the Pakistani way.



We spent the night at Hawas Khan residence (still under construction) in Dassu on the way to the Haramosh Glacier.



Old people get together easily (Hawas Khan's father and uncle).



At breakfast the usual problem for sitting.

We had to change vehicle and driver because the road is very bad. It is not difficult to find landslides in this area.



Ready to start for the next landslide.



We can see the trees forests at 3000m. The path on the right one goes to Hawas Khans aquamarine mine. But an enormous debris flow coming down from a stream on the right side threatens all communications with the upper settlement.



One can reach the upper village on foot. With the donkeys. Poor boys!!



One can already see the Haramosh glacier and the pine forest close to it.



Here I found a sweet Pakistani lover. She thought I was her mother.



Alex always has the suspect that I have another family in Pakistan.