

- the general availability of high performance computers and methods and procedures for data management and analysis;
- the developments in regional seismology, i.e., based on seismological observations at distances less than 2,000 km.;
- the issues of redundancy, data authenticity, reliability and security.

The Ad Hoc Group envisages continuing the discussion of its future work, including the incorporation of new technologies, at its next session.

11. As to the overall conceptual design, the Group agreed on a tentative framework for studying design options, thus providing guidance to the more detailed work on the individual components of the system. This overall design concept might be revised in the light of results obtained from analysis of individual components.

This overall framework includes, inter alia:

- There should be only one IDC, which would operate on the basis of:
  - (i) providing high quality data for national verification needs;
  - (ii) increased automation in the analysis and operational procedures;
  - (iii) improved quality control in all aspects of the system;
  - (iv) improved procedures for waveform analysis;
  - (v) the possibility of accepting and processing continuous digital data, provided that the seismological value of this can be demonstrated.
- The system would be composed of a global network of arrays and single stations, complemented by national regional networks consisting of stations intended primarily for surveillance of national and regional seismicity.
- The global network would consist of high quality stations and arrays. Such a network could be modelled by starting with the best stations in operation during GSETT-2, and extending these geographically to give uniform coverage. This network could then be extended or reduced in size to demonstrate several networks of varying sensitivity. Station types might be site-dependent. They should be open stations. Network studies should be based on revised event definition criteria to be proposed by the "Procedures" working group. Standards for station operation should be high.
- For the national regional networks, NDCs should be encouraged to report as accurately as possible on seismic events occurring within their territories. NDCs should be responsive to requests for data from their national networks.