

UZBEKISTAN SEISMIC NETWORK
Report for the Federation of Digital Seismograph Networks

Uzbekistan seismic network is managed by Institute of seismology, Uzbekistan Academy of Sciences. The network included 14 sites, 6 stations directly connected by leased internet channels to FTP-server at Central Seismic Observatory “Tashkent”. 8 sites send event data by dial-up connection one time per day or after request. Two sites equipped by broadband three-component sensors CTS-1, accelerometers SLJ-100B and 24-bit data loggers EDAS-24 (all Chinese) and output files has own Chinese format. Also a few sites are equipped by three-component short-period sensors JCV-104V and 16-bit data loggers EDAS-3. At all other stations are used Russian one-component sensors SM3-KV (one set for each site) and 16-bit data logger Webtronics.

On the August-September 2007 stations Karshy and Djizzak will installed in sites with low noise level and connected to leased internet channels. Also is planned installation of one system at southern part of country – Termez city.

For data processing and earthquake location we are used WinQuake and EDSP-IAS software. On the short future real-time data flow will used for EarthWorm system.

List of digital seismic stations

| CODE | NAME | LAT | LON | ELEV | Sensor | Data logger | Data transfer |
|------|----------------------------|---------|---------|--------|--------------------|----------------------------|---------------|
| AGL | Agalyk | 39.5171 | 66.8803 | 871.0 | CTS-1, SLJ-100B | EDAS-24* | Radio-modem |
| ANR | Andijon (Andizhan) | 40.7550 | 72.3600 | 494.0 | JCV-104V SM3-KV | EDAS-3 ** Webtronics*** | Leased line |
| FRG | Farghona | 40.3743 | 71.7841 | 591.0 | SM3-KV | Webtronics | Leased line |
| NAM | Namangan | 40.9911 | 71.6587 | 432.0 | SM3-KV | Webtronics | Leased line |
| NUT | Nurota (Nurata) | 40.5537 | 65.6788 | 524.0 | SM3-KV | Webtronics | Dial-up |
| SAM | Samarqand (Samarkand) | 39.6733 | 66.9900 | 704.0 | SM3-KV | Webtronics | Leased line |
| TAS | Toshkent (Tashkent) | 41.3250 | 69.2950 | 470.0 | CTS-1 SM3-KV | EDAS-24 Webtronics | Leased line |
| TMD | Tomdibuloq (Tamdybulak) | 41.7500 | 64.6400 | 273.0 | SM3-KV | Webtronics | Dial-up |
| | Gazly | 40.1294 | 63.4472 | 186.0 | SM3-KV | Webtronics | Dial-up |
| | Chimion | 40.2688 | 71.5225 | 664.0 | SM3-KV | Webtronics | Dial-up |
| | Mingtut | 40.4658 | 70.9748 | 473.0 | SM3-KV | Webtronics | Dial-up |
| | Xiva | 41.3827 | 60.3506 | 101.0 | SM3-KV | Webtronics | Leased line |
| | Shaximardan | 39.9540 | 71.7386 | 1822.0 | SM3-KV | Webtronics | Dial-up |
| | Yangibazar | 41.3021 | 69.5852 | 573.0 | JCV-104V | EDAS-3 | Radio-modem |

* broadband three-component seismometer CTS-1, SLJ-100B accelerometer and 24-bit datalogger EDAS-24 manufactured in China

** short-period seismometer JCV-104V and 16-bit datalogger EDAS-3 from China

*** Short-period Russian sensors SM3-KV and 16-bit datalogger Webtronics from USA

Map of Uzbekistan seismic network

