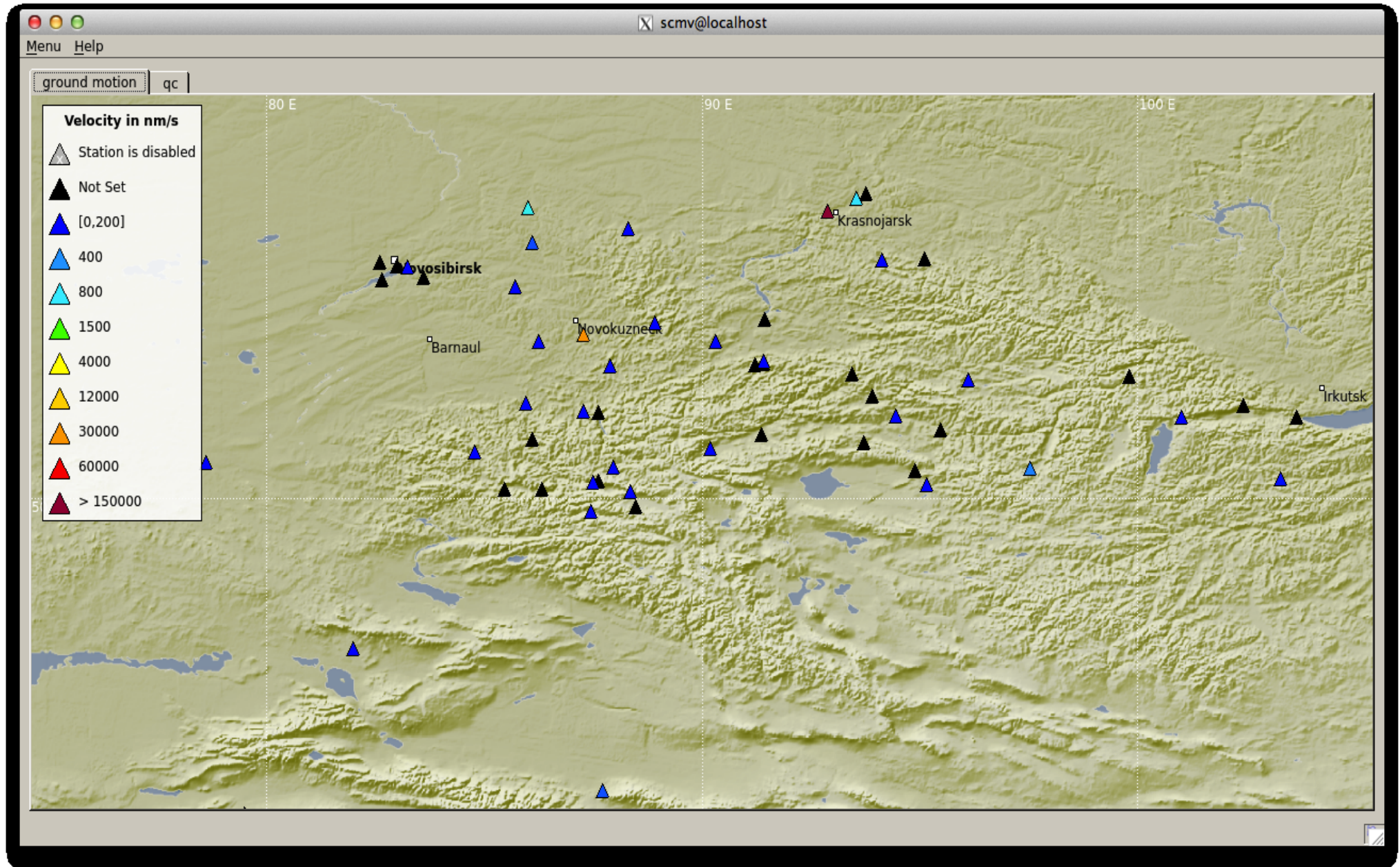


SC3 at GS SB RAS

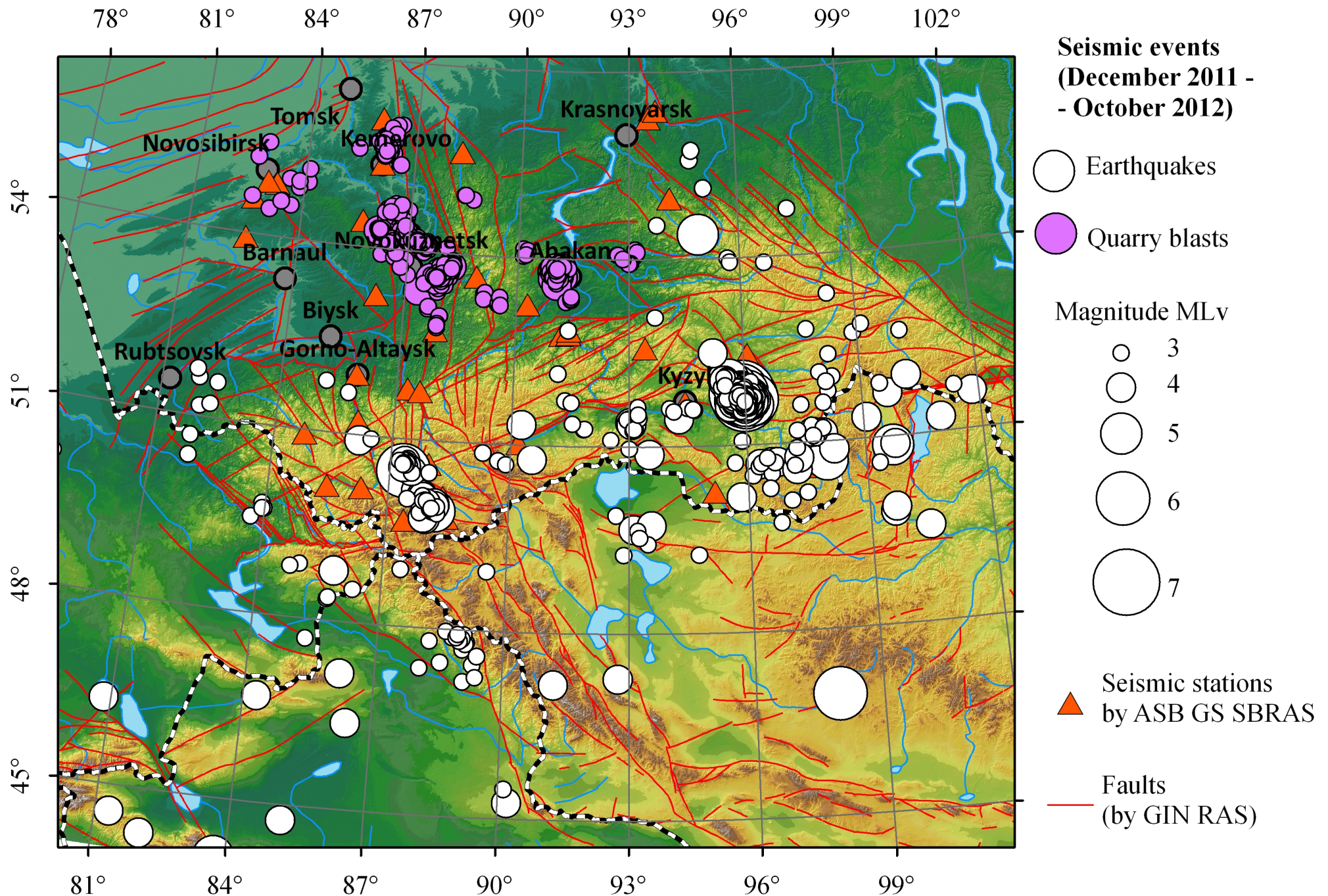
Aleksey Emanov, Vladimir Goncharov, Dmitry Korabelshikov, Aleksey Durachenko



Altay and Sayan



For 2012 year: 27659 events reviewed in SC3



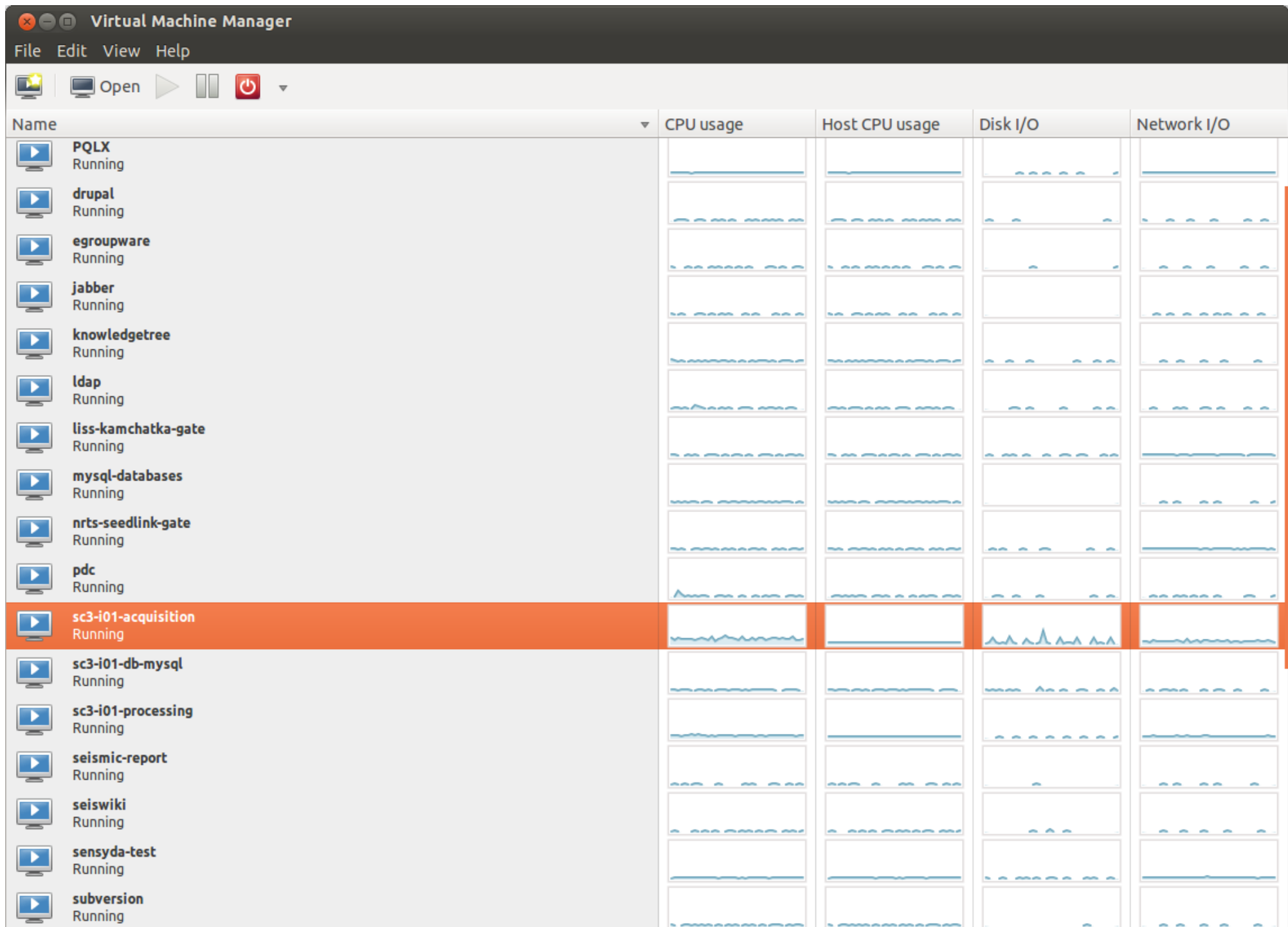
DELL PE R510

- **24 logical CPU's, 96 GB RAM**
- **2 x 1Tb RAID 1 — system (Ubuntu 12.04)**
- **4 x 3Tb RAID 10 — virtual machines space**
- **6 x 3Tb RAID 6 — data storage**

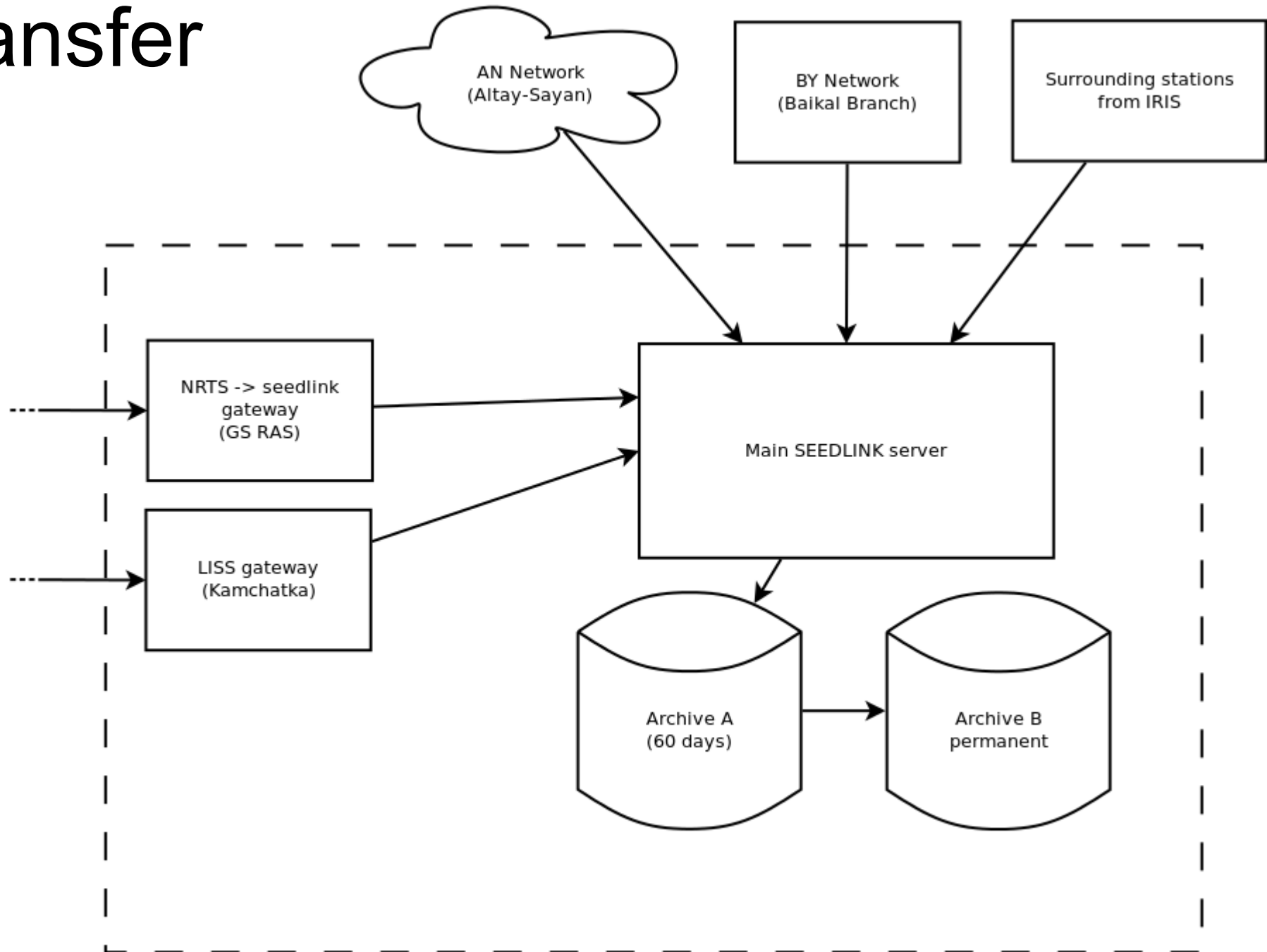


Virtualizing

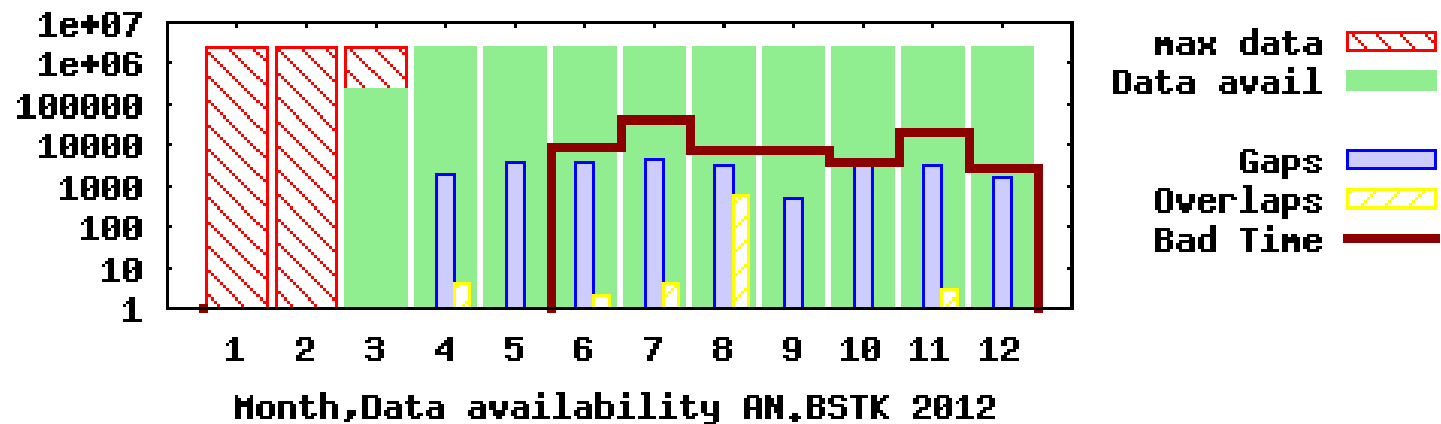
- Solution: KVM-qemu-libvirt
 - Free, fast and stable
- LVM volume group over hardware RAID 10 for virtual machines
 - Faster than file VM images
 - LVM snapshots for backups
- GUI utilities for faster management
 - virt-manager
 - system-config-lvm

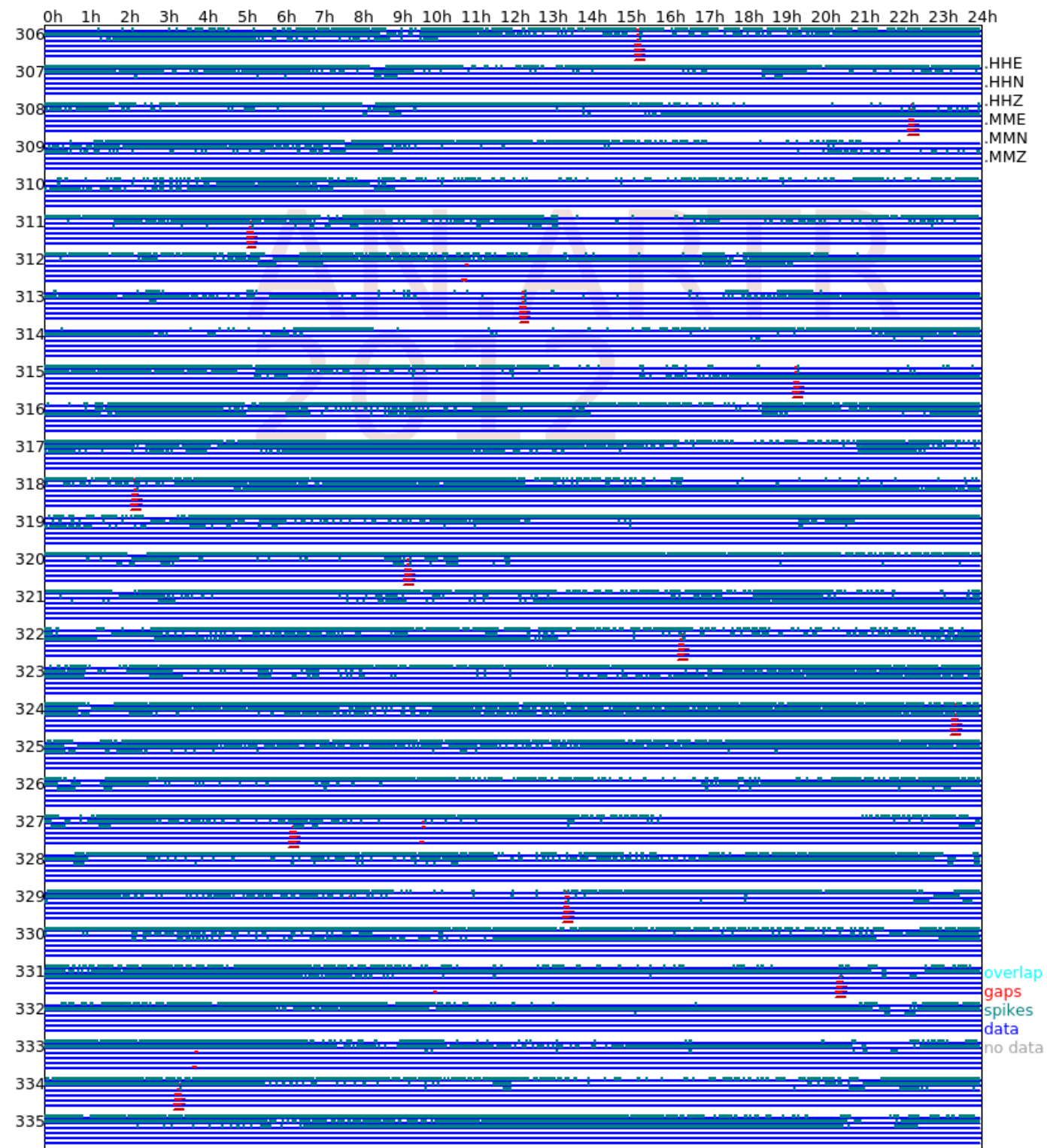


Waveform data transfer



Data availability

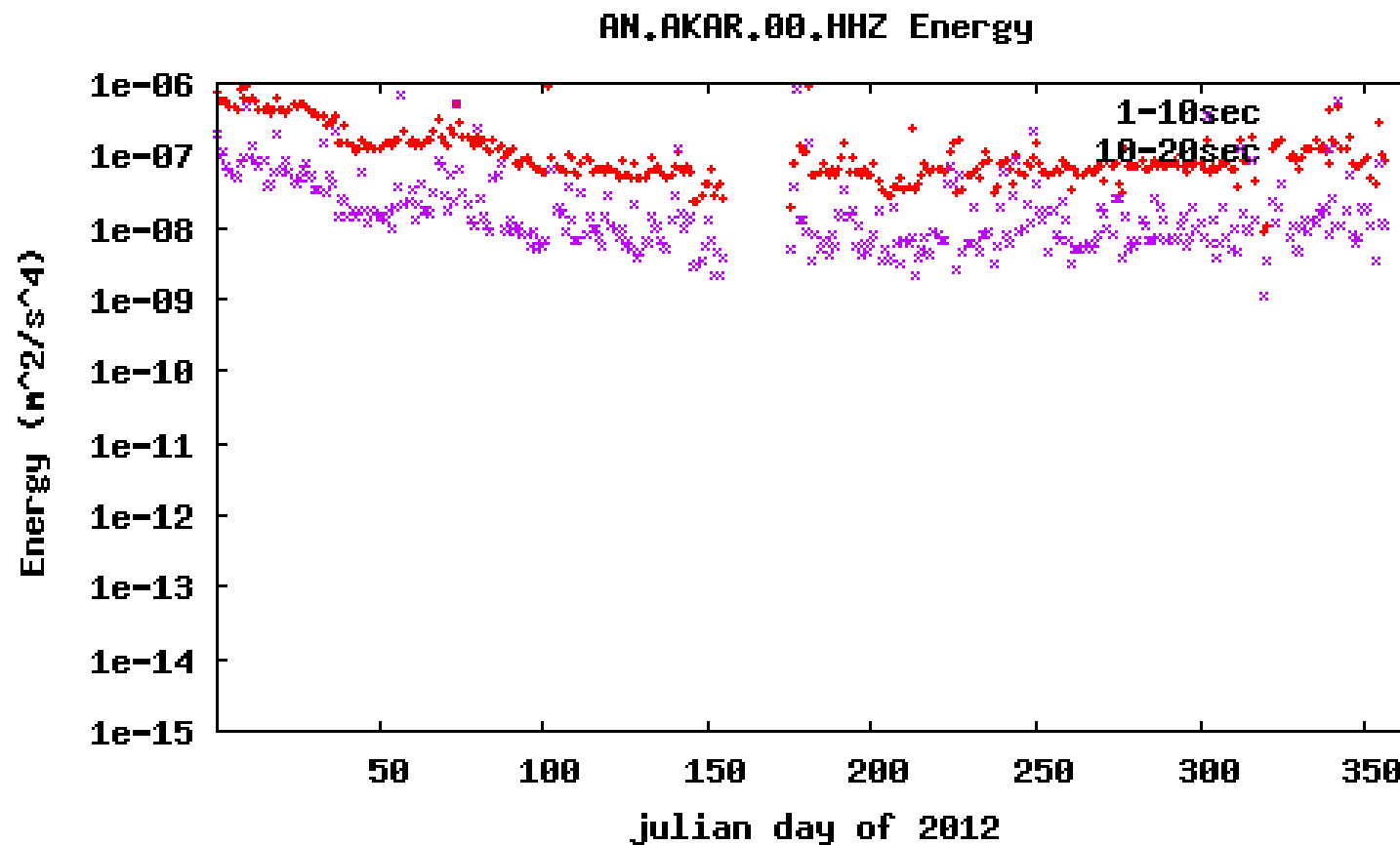




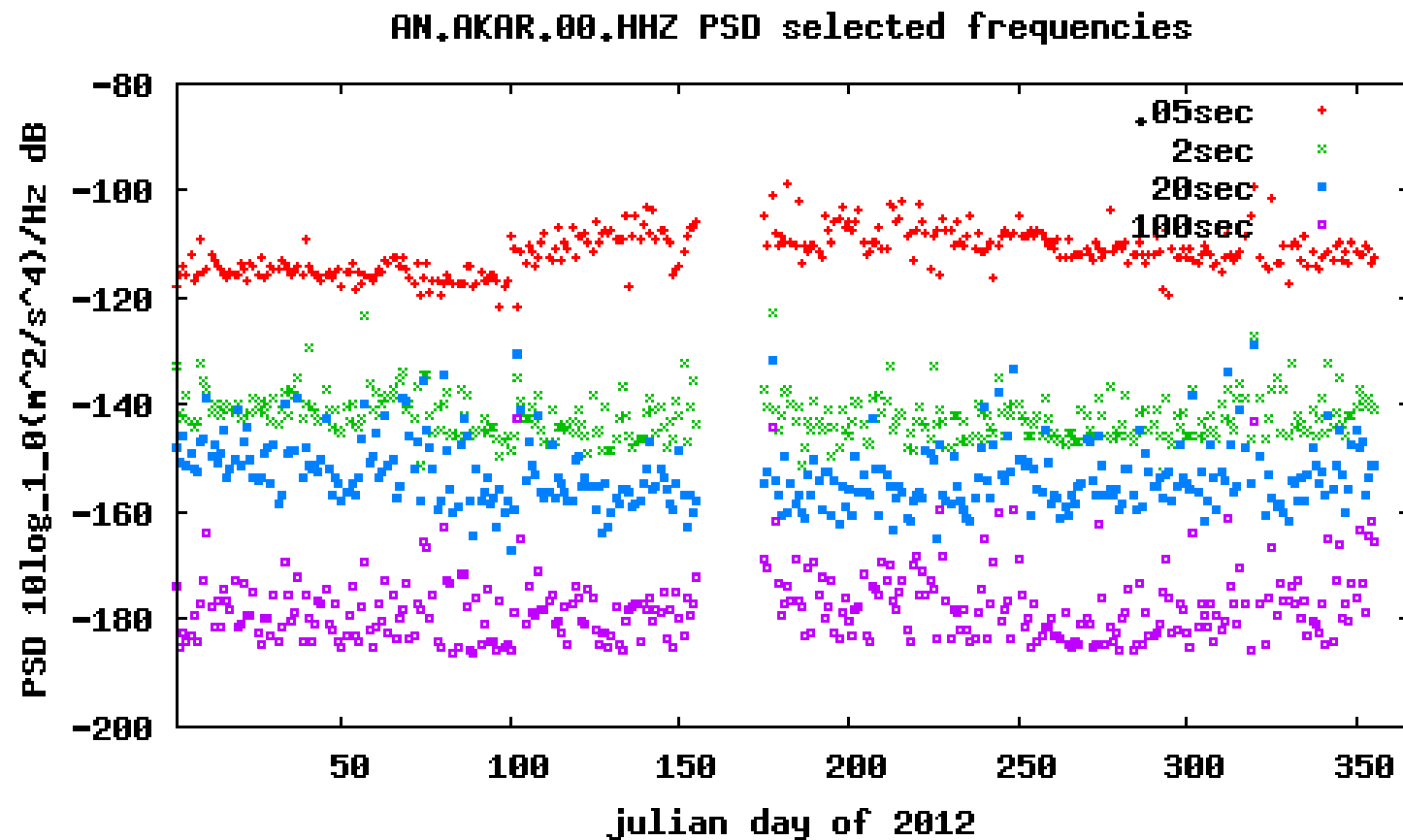
Monthly
data
availability

(Guralp
EAM
watchdog
resets)

Integrated PSD



PSD for selected frequencies



PSD spectrogram (daily PDF PSD mode)

