Czech Regional Seismic Network

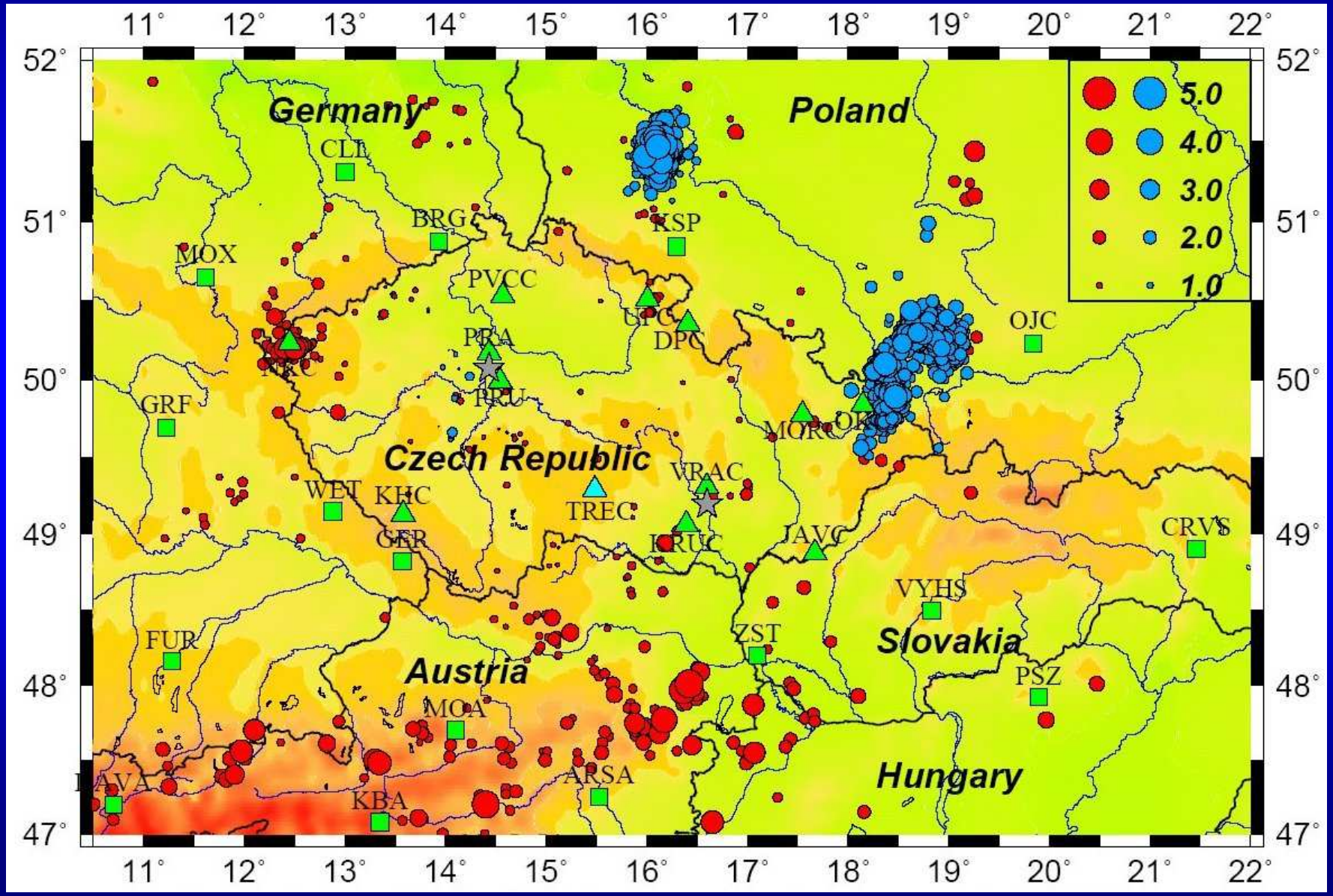
Jan Zedník, Z.Hudová

Geophysical Institute of the Academy of Sciences, Prague

jzd@ig.cas.cz

EAUG Meeting, Trieste, November 29-30, 2004

Stations of the Czech Regional Seismic Network and seismic events in 2000-2004



Overview of the CRSN stations

Station	Code	Latitude	Long.	Alt.	Operator	Sensor	DAS	Open
Průhonice	PRU	49.9883	14.5417	302	GI Praque	Kirnos + SP CMG-3T+SP STS-2 + SP	Lennartz 5800 Vistec ED+SC	1991 1997 2003
Kašperské Hory	KHC	49.1309	13.5782	700	GI Praque	Kirnos + SP STS-2 + SP	Lennartz5800 Vistec ED+SC	1995 1997 2003
Dobruška/ Polom	DPC	50.3502	16.3222	748	GI Praque	STS-2 FBA EpiSensor	Quanterra	1992 2004
Nový Kostel	NKC	50.2331	12.4479	564	GI Praque	STS-2 FBA EpiSensor	Vistec ED+SC	1997 2003 2004
Panska Ves	PVCC	50.5282	14.5689	311	GI Prague	STS-2	ED+SC	2003
Upice	UPC	50.5000	16.0222	737	GI Prague	SP	Vistec ED+SC	2000 2003
Ostrava/ Krásné Pole	OKC	49.3087	18.1472	272	TU/ÚGN Ostrava	CMG-3ESP + SP	Vistec ED+SC	1998 2003
Vranov	VRAC	49.3087	16.5954	475	IPE Brno	TSJ-1b STS-2	Lennartz Quanterra	1991 2003
Moravský Beroun	MORC	49.7760	17.5470	743	IPE Brno/ GEOFON	STS-2	Quanterra	1994
Moravský Krumlov	KRUC	49.0619	16.3951	341	IPE Brno/ ZAMG	STS-2	Quanterra	1995
Velká Javorina	JAVC	48.8757	17.6707	827	IPE Brno/ ZAMG	STS-2	Quanterra	1995
Praha	PRA	50.0703	14.4331	225	Charles Univ .Praque	CMG-3T	PC acquisition	1994

Dobruska/Polom (DPC)

Geophysical Institute AS CR

N50.35 E16.32 748 m

- Station of the Federation of the Digital Seismological Networks
- DAS: Quanterra Q4132
- Sensor: STS-2, EpiSensor
- Timing: GPS
- Access: over Internet to GI in real time
- Sampling: 20 Hz
- Data format: miniSEED
- Available data: AutoDRM, WWW – June 1998 - present continuous
  IRIS DMC - continuous since 1992

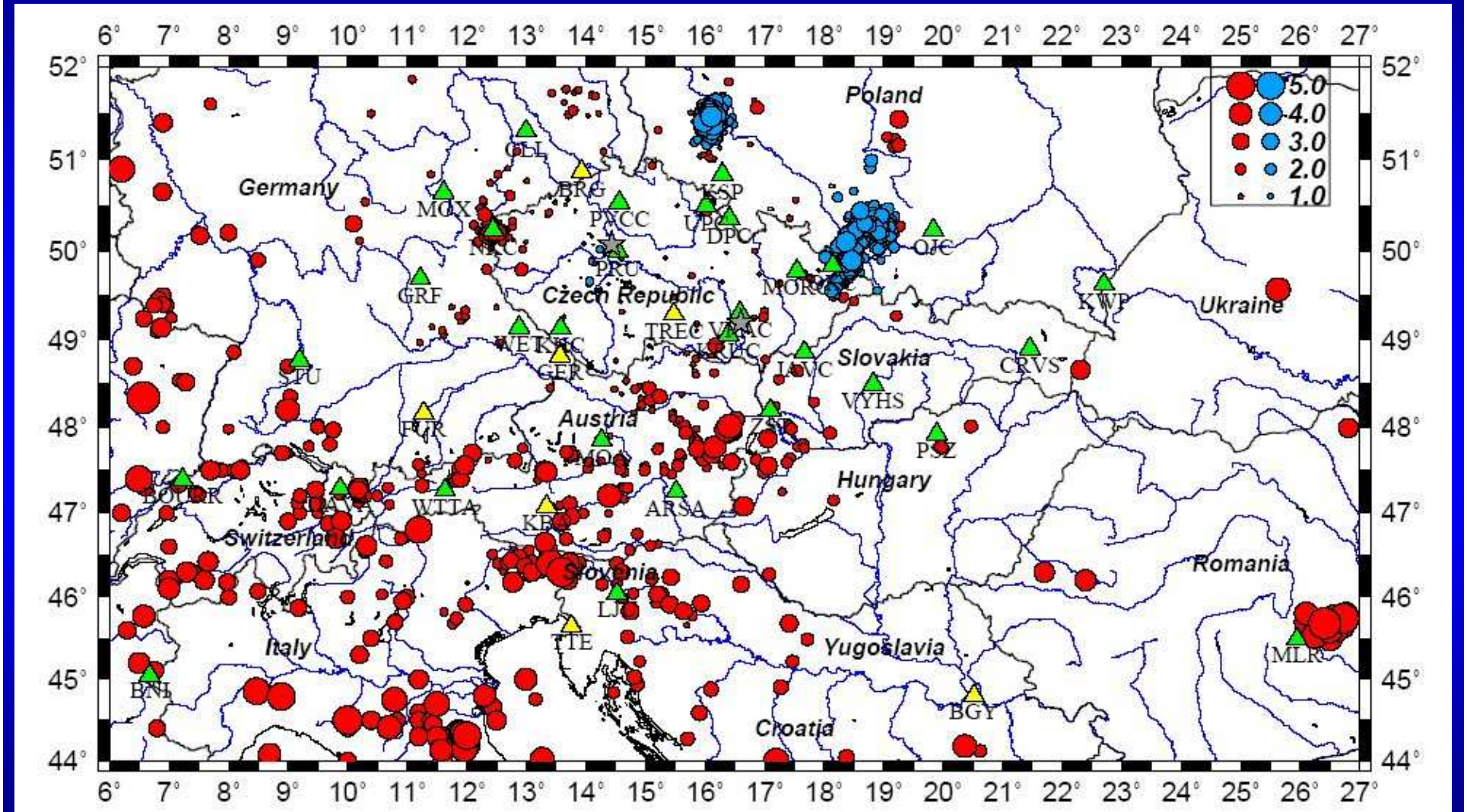
Kasperske Hory (KHC)

Geophysical Institute AS CR

N49.13 E13.58 700 m

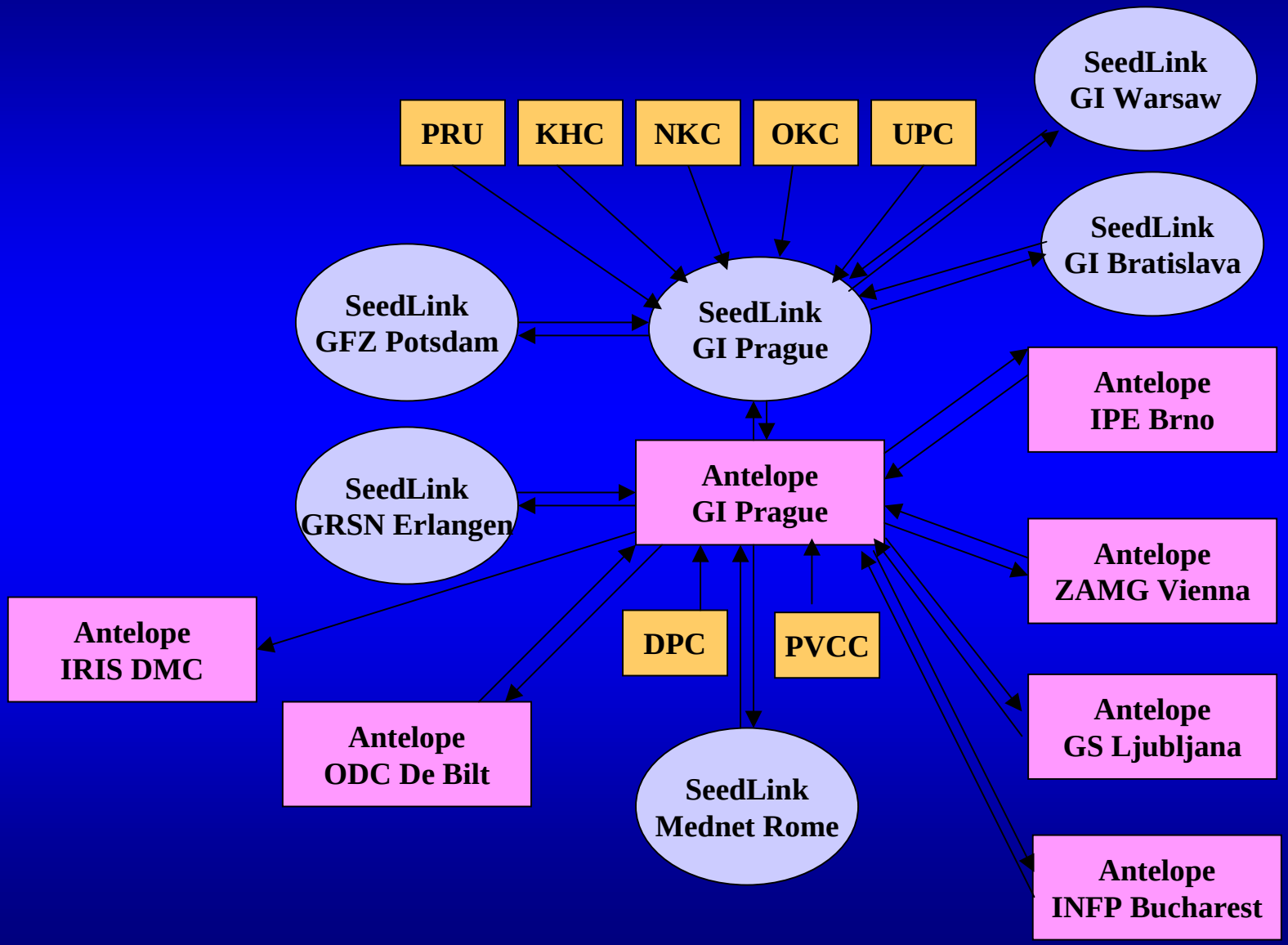
- DAS: EarthData + SeisComP
- Sensors: STS-2, SKM-3
- Timing: GPS
- Access: over Internet to GI in real time
- Sampling: 20 Hz
- Data format: miniSEED
- Available data: AutoDRM, WWW: June 2000 - present continuous
  CD-ROM - events since 1988

Virtual network of the Geophysical Institute ASCR

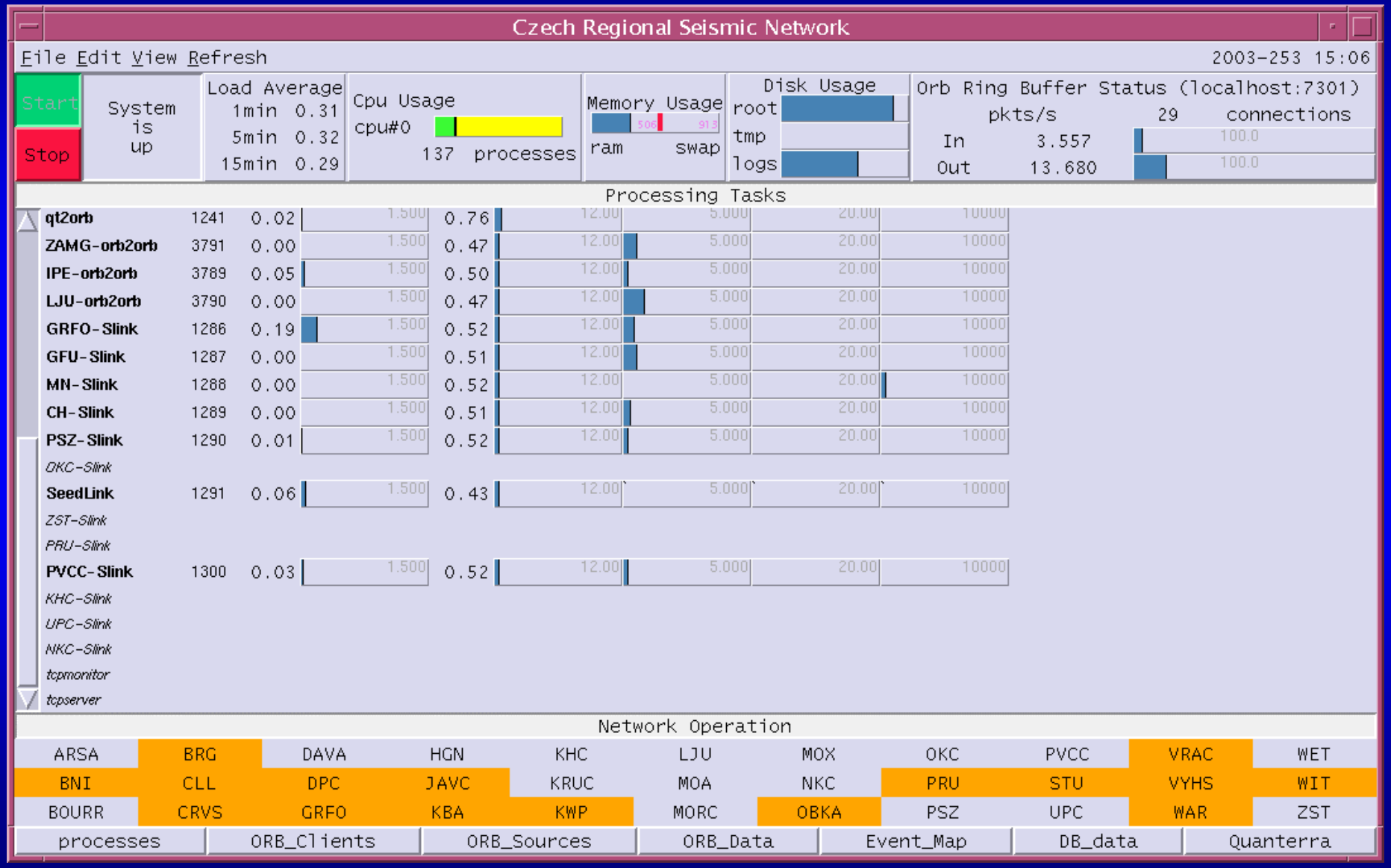


Virtual network of the Geophysical Institute AS CR, Prague in 2004

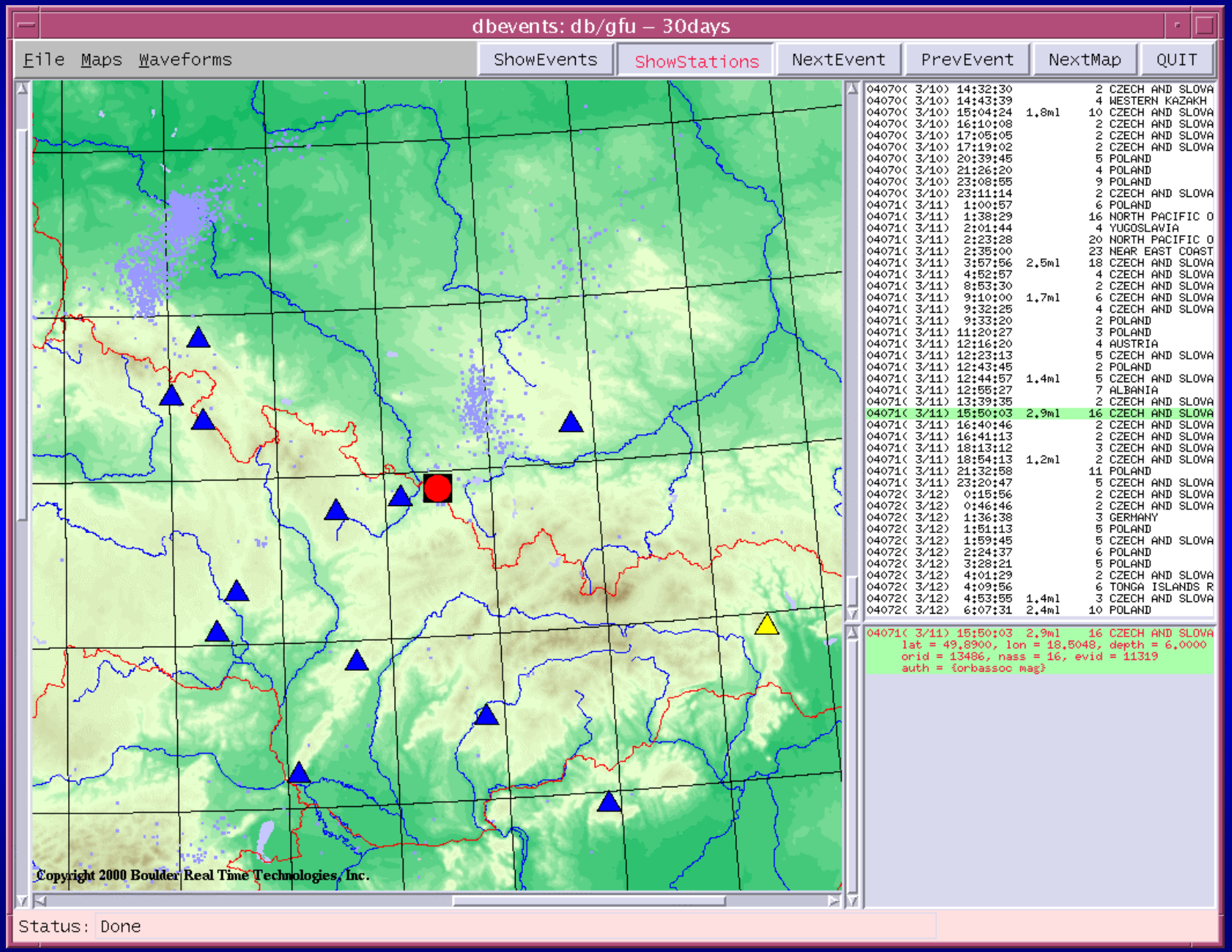
Seismological service GI Prague – Data flow



Antelope – rtm

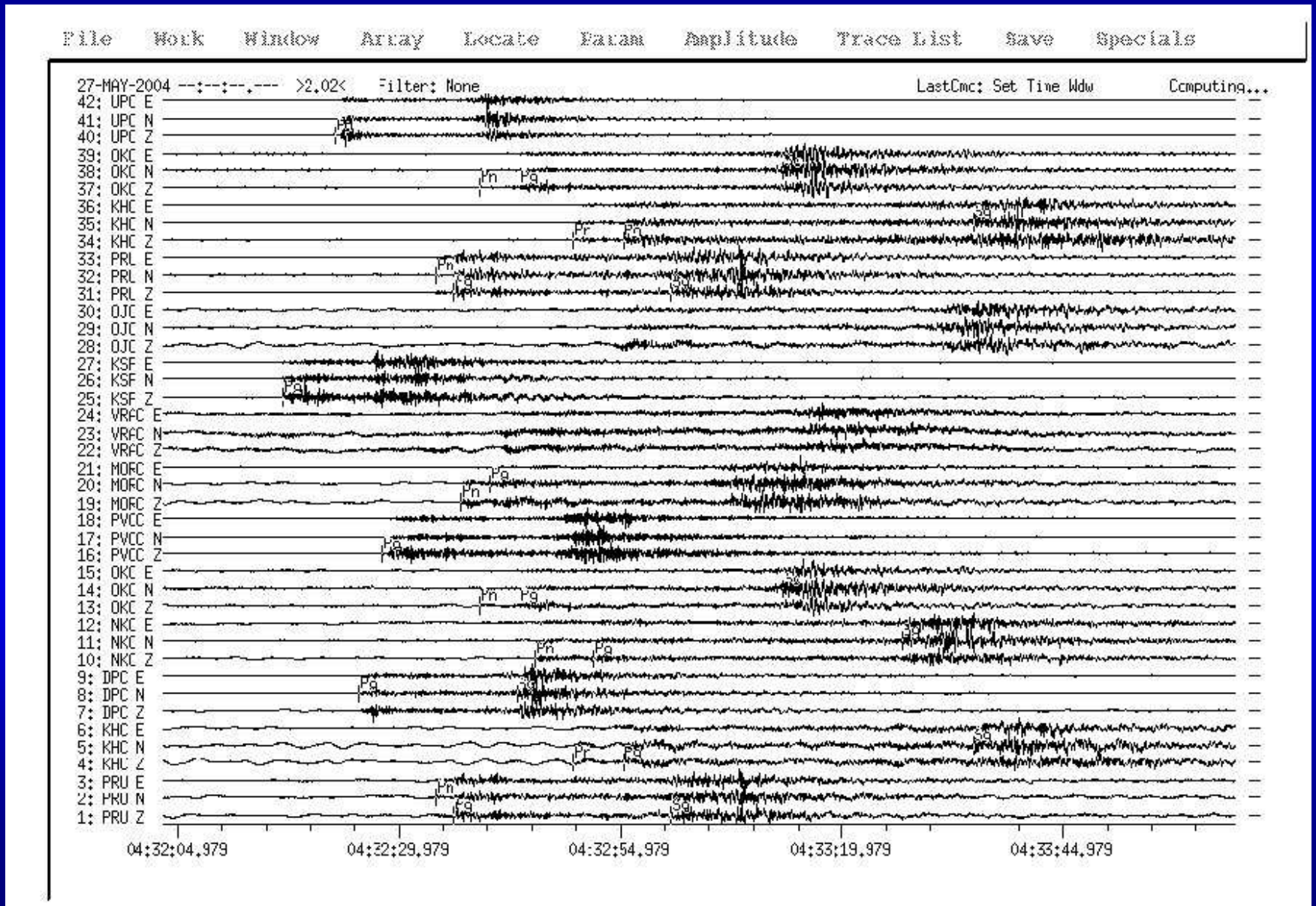


Antelope – Lubin mining-induced shock



Location of regionional events

Analysis program *SeismicHandler* + Location program *LocSAT*



AutoDRM services

Data centrer	Station	Period /Delay
GI Prague autodrm@seis.ig.cas.cz	PRU, KHC, NKC, DPC, PVCC, OKC, UPC	4-5 years / minutes
IPE MU Brno autodrm@ipe.muni.cz	VRAC, MORC, JAVC, KRUC	6 months / minutes

WWW access to data