

The background of the slide is a photograph of a herd of antelopes in a savanna. The antelopes are in various poses, some facing forward and others in profile. The image is semi-transparent, allowing the text to be overlaid clearly. The text is centered and uses a serif font.

Antelope User Group Meeting
February 27 / 28 2007

DST Trieste

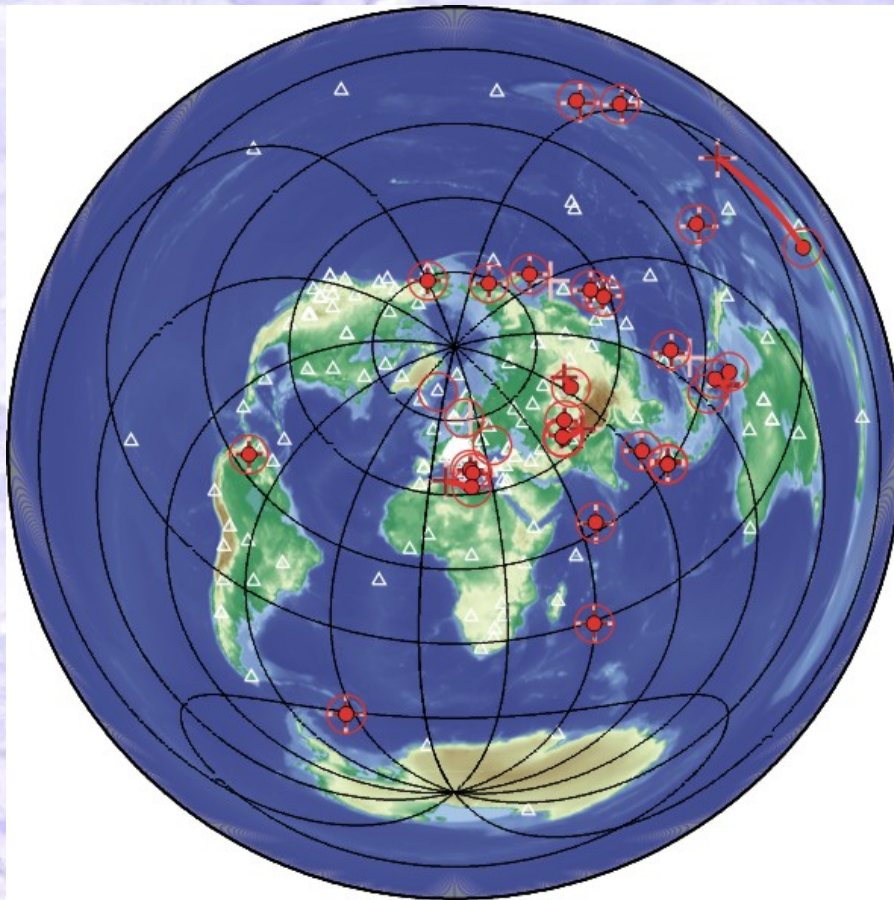
Nikolaus Horn

ZAMG / Vienna

NDC

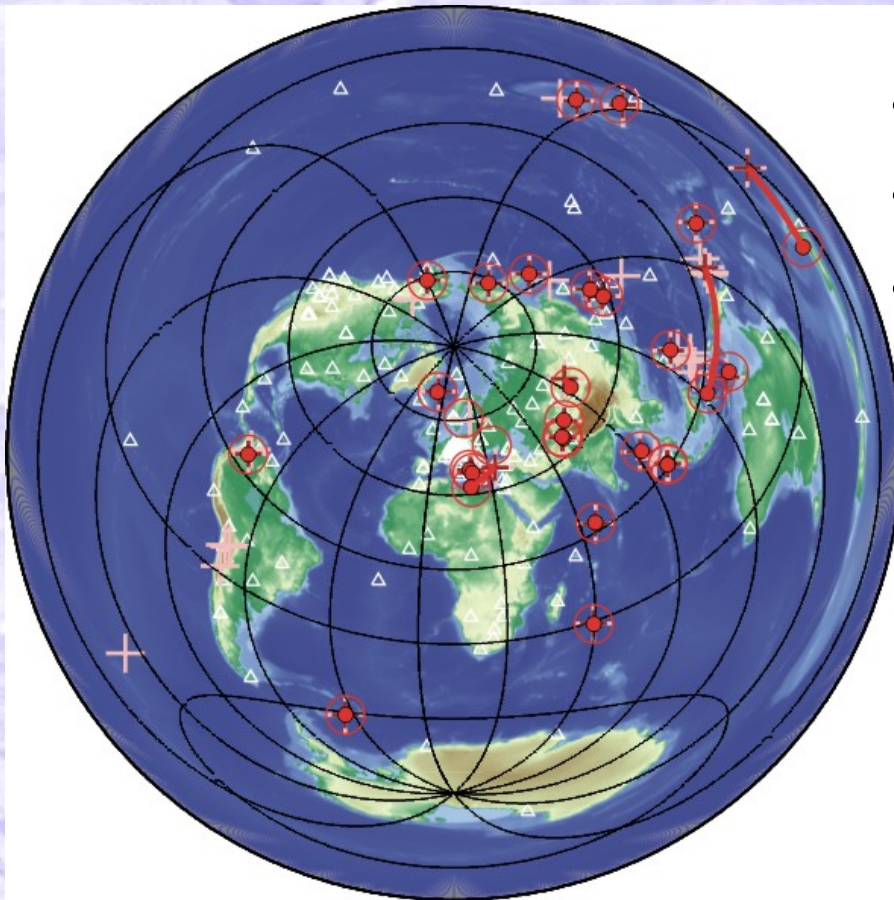
- autodrm2db
 - responses,
 - on-/offdate issues
- reb2db – thank you Kent
 - detections added
- detections2orb
- autodrm requests
 - waves4u
- CD1.1 – sorry Danny

NDC and SEL3



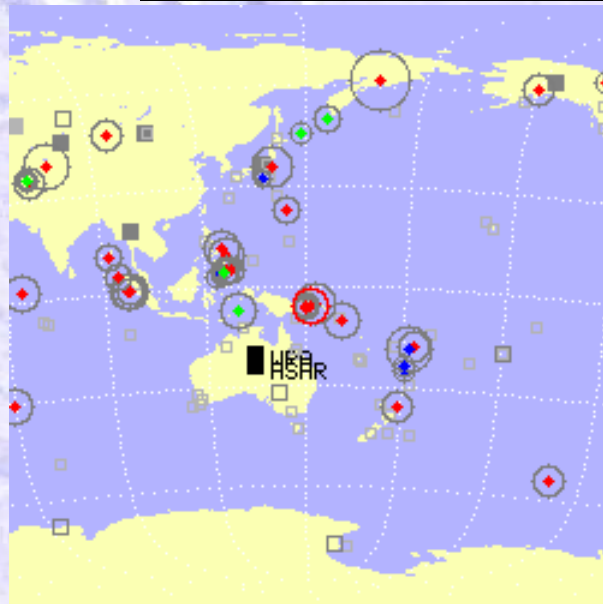
- SEL3: 51 events (>3),
28 (>5)
- NDC: **30** events (>5)
- 26 correlating
- Results:
 - 2 events „missed“
 - 20 events within 1°
 - 4 events $> 4^\circ$

NDC and REB



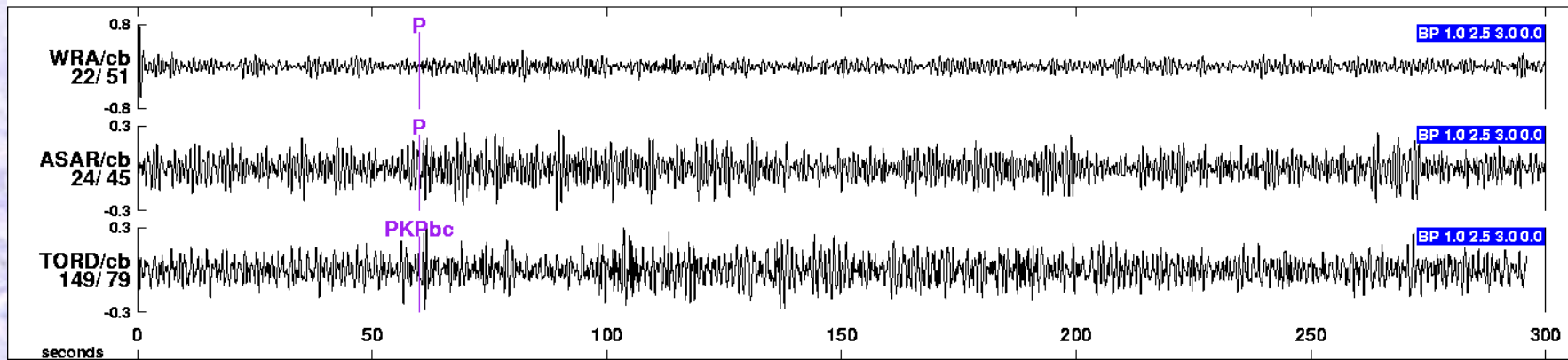
- REB: 51 events
- 27 correlating
- Results:
 - 2 events „missed“ (nobs > 5)
 - 22 events within 1°
 - 3 events > 4°

Event 2006-09-06 10:25

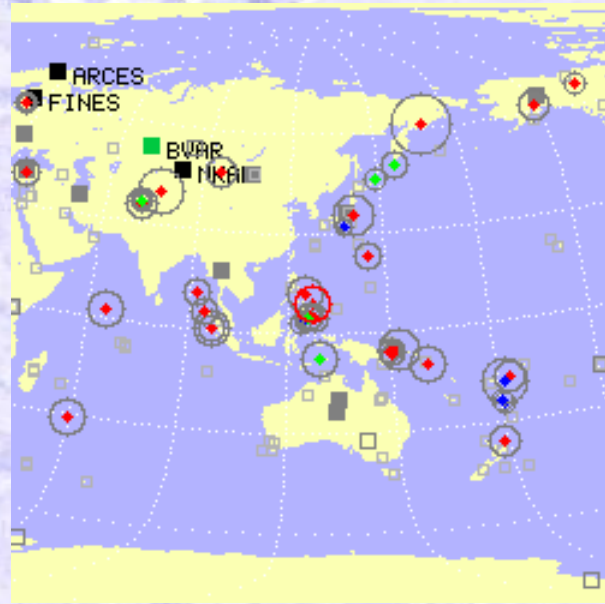


- 3 observations in REB
- GAP 295
- New Britain Region

IDC REB event 2006249 10:25:56 -5.7/151.1 0.0 mb=2.87 orid=3842541

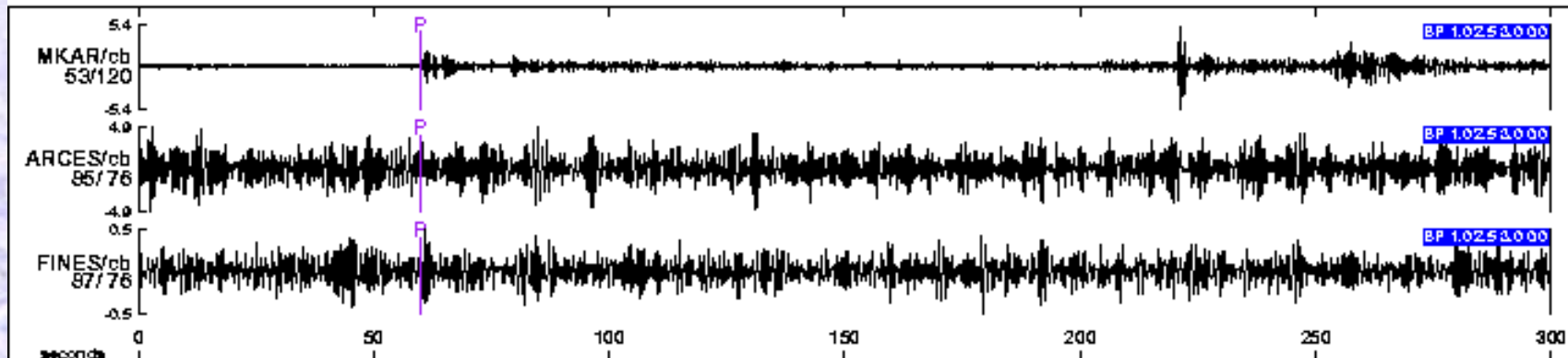


Event 2006-09-06 10:25

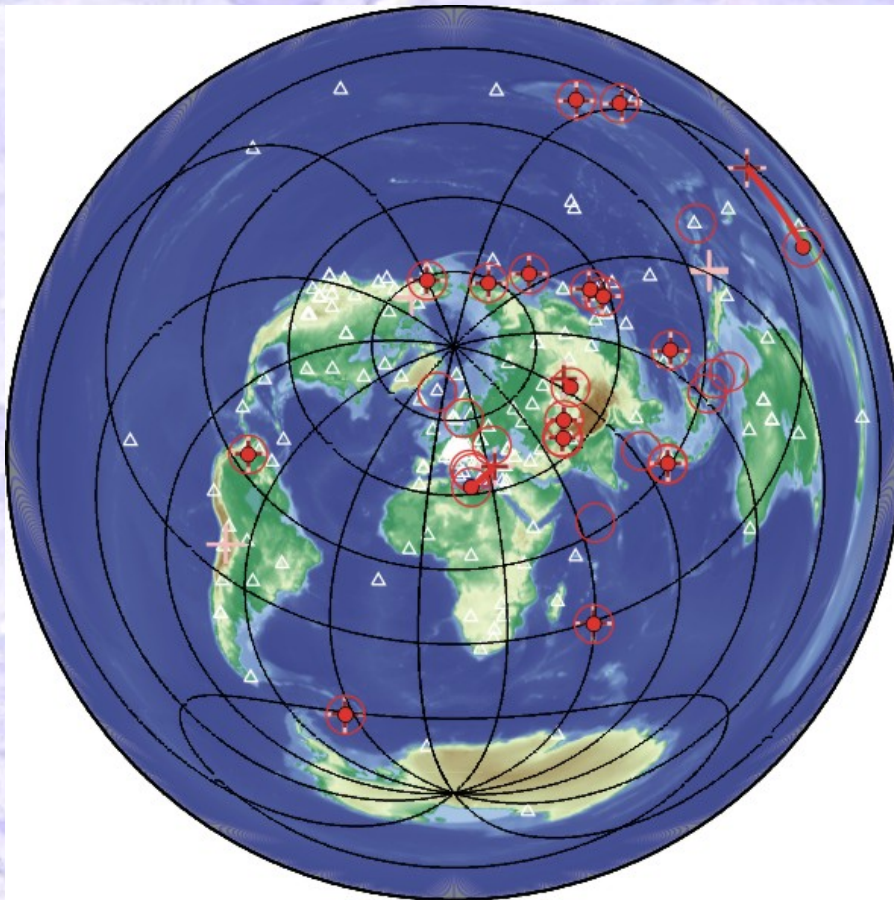


- 4 observations in REB
- GAP 343
- Phillipines

IDC REB event 2006249 06:44:30 9.5/126.9 0.0 mb=4.10 orid=3841777



NDC and NEIC



- NEIC: 22 events
- 17 correlating
- Results:
 - 1 event „missed“ not in REB
 - 3 with less than 6 obs in SEL3
 - 14 events within 1°
 - 1 events $> 4^\circ$

to summarize the comparison

- We can reproduce SEL3 / REB for events with 6 or more arrivals with NDC-AT standard location routine -> confidence in REB for these events.
- For some „small“ events (nobs < 6) we could not produce a „confident“ solution. More testing needed.

Bulletin

The background of the slide is a photograph of a savanna landscape. In the foreground, two antelopes, possibly gazelles or similar species, are visible. One is in the center-left, facing left, and another is on the right, facing right. The ground is dry and dusty, and the background shows a line of trees under a clear sky.

- isfbulletin
 - Minor formatting issues
 - ISF remarks
 - Magnitudes
- IMS formatted arrival list

Bulletin

DATA_TYPE BULLETIN IMS1.0:SHORT

Event 76 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2006/05/28	23:52:03.00	-1.00	1.38	-13.9000	171.2500	-1.0	-1.0	-1	592.5	-1.0	0	0	352	83.10	87.56	m i	QED-reass	100
Magnitude		Err	Nsta	Author	OrigID													
mb		4.7		QED-reass	100													
(853 km WNW of Fidschi Inseln)																		

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	ArrID
DGR	83.10	52.8	P	00:03:28.099	---						7.6			mdi		1039
PLM	83.11	53.1	P	00:03:28.862	---						11.7			a_i		1042
SVD	83.21	52.3	P	00:03:29.498	---						5.6			a_i		1035
JCS	83.22	53.4	P	00:03:29.534	---						9.0			a_i		1040
RDM	83.22	52.9	P	00:03:29.200	---						10.2			a_i		1027
MLAC	83.26	48.5	P	00:03:30.612	---						5.7			a_i		1043
MONP	83.28	53.7	P	00:03:29.825	---						11.2			a_i		1031
CRY	83.28	52.9	P	00:03:28.923	---						6.0			mci		1028
BZN	83.31	53.0	P	00:03:29.388	---						9.8			mdi		1029
WMC	83.33	53.0	P	00:03:30.100	---						6.2			a_i		1030
LVA2	83.34	53.2	P	00:03:30.091	---						9.4			m_i		1034
CWC	83.35	49.8	P	00:03:29.773	---						13.3			a_i		1036
KNW	83.36	52.8	P	00:03:29.800	---						6.2			a_i		1033
FRD	83.36	53.0	P	00:03:30.250	---						6.1			a_i		1032
PFO	83.52	53.0	P	00:03:30.525	---						6.7			a_i		1037
MPM	83.64	50.4	P	00:03:31.389	---						12.0			a_i		1038
SLA	83.73	50.6	P	00:03:31.721	---						10.7			a_i		1045
GSC	83.87	51.3	P	00:03:32.240	---						5.8			a_i		1041
GLA	84.59	54.0	P	00:03:36.461	---						10.9			a_i		1046
DAN	84.72	52.4	P	00:03:36.922	---						5.2			a_i		1044
TUC	87.56	55.8	P	00:03:50.648	---						6.3			a_i		1047

Bulletin

- DATA_TYPE ARRIVAL:REVIEWED IMS1.0

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Author	ArrID
AUT_NDC	GLA	BHZ		2006/05/28	23:56:25.761	P			76.6				a_e orbassoc_	1015
AUT_NDC	MONP	BHZ		2006/05/28	23:56:30.700	P			102.3				a_e orbassoc_	1021
AUT_NDC	MONP	BHZ		2006/05/28	23:56:32.308	P			127.2				mdi dbp:horn:	1008
AUT_NDC	BAR	BHZ		2006/05/28	23:56:33.636	P			68.7				a_e orbassoc_	1024
AUT_NDC	JCS	BHZ		2006/05/28	23:56:33.734	P			241.0				a_e orbassoc_	1022
AUT_NDC	JCS	BHZ		2006/05/28	23:56:35.334	P			50.2				a_i orbassoc_	1020
AUT_NDC	LVA2	BHZ		2006/05/28	23:56:35.475	P			32.7				a_e orbassoc_	1010
AUT_NDC	TRO	SHZ		2006/05/28	23:56:36.000	P			12.6				a_e orbassoc_	1013
AUT_NDC	PFO	BHZ		2006/05/28	23:56:37.025	P			7.3				a_e orbassoc_	1009
AUT_NDC	FRD	BHZ		2006/05/28	23:56:37.100	P			11.7				a_e orbassoc_	1023

EMSC / QED

- EMSC webpage confusing
 - emscd
 - dump_emsc_rts
- QED
 - neicd

K2 / triggered data

- K2evthdr2orb
 - Puts K2 detections onto ORB (/db/detection)
 - have orbassoc associate detections
- evt2db
 - who needs that
- schema for triggered data

K2 evt2db / setup

Table for USArray operations

Table designed to handle more detail in station operations including:

time and endtime data are expected from station

digitizer/calibrator parameters

This relation holds basic digitizer and calibrator

parameters

seismometer/calibration coil parameters

This relation holds basic seismometer and calibration coil parameters that are needed for computing overall sensor sensitivity from calibration signals.

Primary key:

net sta chan time::endtime

Record Size (bytes):

212

1 Iddate

Quit

net	sta	chan	time	endtime	model	manu	ssident
sensortype	caldrive	active	calgen	cal2rsp	samprate	calib	calper
rsptype	Iddate						

Dismiss

Quit

K2 / schema for triggered data

channels

Individual channels from a triggered Altus recording

Primary **K2 event records**

Foreign This Table holds information on Altus triggered recordings
See evt_channel for individual channels

Record:

Records Primary key: sta time

Size (by Foreign keys: commic

Permiss Record Size (bytes): 166

File: Records: 2

sta Size (bytes): 332

time_ma Permissions: may be modified

File: db1.evt_record

sta	time	endtime	triggertime	nsamp	evtfilename	evtfilesize
ft	errors	auth	commid	lddate		

Dismiss

Quit

The background of the slide is a photograph of a desert landscape. In the foreground, there is a large, light-colored rock formation with several sharp, pointed peaks. A person is walking away from the camera on a dirt path that leads towards the rock formation. The sky is clear and blue. The overall scene is bright and sunny.

Catalogue

- Austrian Earthquake Catalogue
 - separate archive database
 - macroseismic information
 - Damages
- External Sources
 - NEIC database import
 - USGS machine readable format

Catalogue

macroseismic evaluations

This relation holds macroseismic evaluations of events

Primary Basic information about a seismic event is kept in the origin table.
This relation holds additional information derived from felt reports

This relation holds information about damages caused by seismic events

Primary key: evid

Foreign keys: commic

Record Size (bytes): 131

evid	heard	felt	damaging
casualties	uplift	subsidence	faulting
tsunami	seiche	volcanism	acoustic_waves
gravity_waves	T_waves	liquefaction	geyser
landslides	sandblows	ground_cracks	lights
damage_sum	d_desc	nr_injured	i_desc
nr_casualties	c_desc	auth	commid
lddate			

Dismiss

Quit

Archiving / online storage

- mirrored disk arrays
- continuous storage using orb2db / cdorb2db
- autodrm access enabled
- Still a lot of work!

Public Information

- Alternate regionnames
- Longer names
- who knows about new regionalization ?
- Internationalization
- Polygon search
- Any interest in my polygons ?
- Google Earth support – db2kml



Earth models

Support NonLinLoc

- Use Lomax ' grids in orbassoc
- database Interface to nonlinloc