

CREATING A CATALOGUE & THOUGHTS ON REQUIREMENTS FOR DBLOC3

TAIMI MULDER

*ANTELOPE USER GROUP
PAPAGAYO, COSTA RICA
2013 NOV 4-6*

PRIMARY CATALOGUE SET

ROUTINE OPERATIONS

Real-time
auto locations

Real-time db
60-90 days
(daily review)

db_2012_01

db_2011_12

db_2011_11

db_2011_10

db_2011_09

Etc.

NETWORK CATALOGUES

- Consist of event locations
- Created by daily & monthly review

EXTERNAL AGENCY BULLETINS

- Origins, magnitudes

External Agency catalogues or bulletins that are associated with the local network solutions to produce the network catalogue.

QED weekly
(USGS NEIC)

PNSN

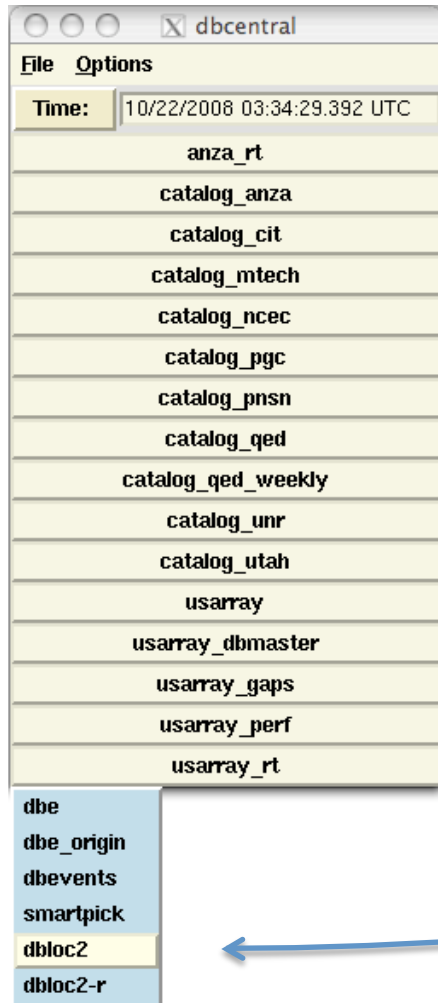
AEIC

MTECH

Etc.

Monthly dbs split off from the real-time db each month (monthly review).

CATALOGUE COLLECTION: DBCENTRAL



- Collects all databases in one place
- Desired time entered in "Time:" bar
- Select program to run on a given database

SECONDARY CATALOGUE SET

Auto
P-nodal

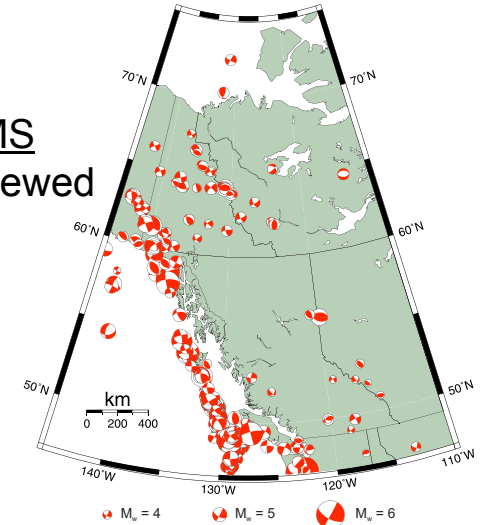
P-nodal

FOCAL MECHANISMS

- Automated, & reviewed

Auto
Moment Tensor

Moment Tensor



Felt events

Comments on where event was felt, intensity levels, damage.

Polarity Reversals

Teleseismic events used for determining polarity reversals.

Cascadia

Divide events into either the Juan de Fuca plate or the North America plate.


Hazard

Events with magnitudes used to determine seismic hazard levels, by region, for input into the National Building Code. Prefmag very useful, especially for large historic events.

TOOLS

- X-correlation (teleaseismic arrivals)
- Various magnitude calculators
- Schema: *models0.4 (velocity models)*
- Dbloc2
- smartpick
- dbcentral

DIFFICULTIES

- Marking first motions ... keyboard input? Dbpick display()?  data input into traditional fm programs such as fpcfit, focmec, etc.
- Tracking work done
- Tracking catalogue changes
- Tracking polarity reversals
- Dbxcor