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27 The DNA12 Seismic Velocity
Model

GNS Science Report 2012/37 3 Figure
2 The velocity modelling work flow 2.0

MODEL CONSTRAINTS AND PRE-

PROCESSING The velocities used for
timedepth conversion were

constrained using local well data within

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- the KUP area, regional well data from the greater southern Taranaki Basin(see listing in Appendix A), and seismic stacking velocity data.

Modelling | Seismic Laboratory for
Imaging and Modeling
Coherent seismic energy is evident

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from 1 to 5 hertz beginning approximately 5 hours before the flood impacted Punakha village, which originated at the source lake and advanced down the valley during the GLOF duration. Our analysis highlights potential benefits of using real-time seismic monitoring to improve early

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warning systems.

Elastic wave 2D modeling of seismic surveys

C.R. Bina, in Treatise on Geochemistry, 2003. 2.02.5.1

Overview. Seismic velocity heterogeneity in the mantle, e.g., as

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revealed by seismic tomography, is often interpreted in terms of strictly thermal origins. However, lateral variations in seismic velocity within the lower mantle (Hedlin et al., 1997; Niu and Kawakatsu, 1997; Castle and Creager, 1999; Deuss and Woodhouse, 2002) may arise ...

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A seismic velocity model is necessary to map depth and thickness of subsurface layers interpreted from seismic reflection ... As per the figures of 1.4.2012 and 7989 MMm3 of free

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gas with an Ultimate (PDD)
component of 22.55 MMt oil and
6465.5 MMm³ free gas component.

Seismic observations, numerical
modeling, and geomorphic ...
Numerical modeling results for a
velocity model considering only the

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low-velocity subducting crust (standard model). (top) Snapshots of seismic wave propagation at 5.0, 12.0, and 19.0 s. Black lines in cross sections indicate the Conrad and Moho (Katsumata 2010), the upper surface of the Pacific slab (Nakajima et al. 2009b), and the slab Moho.

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Low seismic velocities below
mid-ocean ridges: Attenuation ...
3D Velocity Model for Southern

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California H. Magistrale, and R. Clayton, 2003, Mantle heterogeneities and the SCEC three-dimensional seismic velocity model version 3, Bulletin Seismological Society of America 93, 757-774.* Download Version 3.0 ~6.2 Mbytes. A "readme" file for this model is available last

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update: 12/17/2012

Three-dimensional seismic velocity structure in the ...

The model incorporates broadband seismic data from 20 seismic networks deployed incrementally in the Central Andes from 1994 May to 2012 August,

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to image the shear wave velocity structure of the South American Cordillera.

Improving fault image by determination of optimum seismic ...

The importance of finding a reliable, 1-D reference velocity model has been

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emphasized in many works (e.g. Crosson 1976; Thurber 1983; Kissling et al. 1995). 1-D velocity models are routinely used in seismic network operations and in seismological studies to estimate earthquake location, focal mechanisms and other seismic source parameters.

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The Kupe Velocity Model - 4D
Taranaki Project

The velocity model was built on the basis of the velocity model defined in the previous section using the pro-velocity from the 2D seismic data, and interface markers from the well log

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information. The RMS velocity function was obtained through a detailed velocity analysis of the 2D seismic data (figure 5 (a)).

Crustal seismic velocity responds to a magmatic intrusion ...
seismic data for velocity model

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building was first proposed. by Landa, Beydoun and Tarantola (1989) and was exploited. ... arrival seismic data (Hale 2012, 2013). Of course, the price.

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24 (2012) 5 Fig 3: A simple 2D velocity/density model with horizontal layers only. Fig. 4: Dyke-fault and anticline velocity models. Seismic Velocity Modeling 2012 5 Seismic noise interferometry is an exciting technique for studying volcanoes, providing a continuous measurement

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of seismic velocity changes (dv / v),
which

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Seismic Velocity Modeling 2012 5 24
(2012) 5 Fig 3: A simple 2D
velocity/density model with horizontal

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layers only. Fig. 4: Dyke-fault and anticline velocity models. Seismic Velocity Modeling 2012 5 Seismic noise interferometry is an exciting technique for studying volcanoes, providing a continuous measurement of seismic

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Guided wave observations and evidence for the low-velocity ...
Seismic noise interferometry is an exciting technique for studying volcanoes, providing a continuous measurement of seismic velocity changes (dv / v), which are sensitive to magmatic processes that affect the

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surrounding crust. However, understanding the exact mechanisms causing changes in dv / v is often difficult. We present dv / v measurements over 10 years in central Iceland, measured ...

SEISMIC VELOCITY MODEL

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BUILDING: AN AID FOR BETTER ...

Elastic wave 2D modeling of seismic surveys CREWES Research Report — Volume 24 (2012) 5 Fig 3: A simple 2D velocity/density model with horizontal layers only. Fig. 4: Dyke-fault and anticline velocity models.

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Southern California Earthquake Data
Center at Caltech

27 The DNA12 Seismic Velocity Model

Robert Porritt, Richard Allen, and Fred

Pollitz 27.1 Introduction The DNA

velocity models have been following
the rolling USArray from west to east.

The initial model, DNA07 (Xue and

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Allen, 2010), used data from the earliest USArray deployment, the BDSN, and other regional networks.

Seismic velocity constraints on the material properties ...

Seismic waves are modelled by a partial differential wave equation

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(PDE) where the input is medium parameters and a source signature, and the solution is a wavefield. Two wave equation solves are needed to implement the Jacobian of the forward modelling operator, as defined in full-waveform inversion, mentioned by (Leeuwen, 2012).

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(PDF) Velocity model building from seismic reflection data ...

Regional East Pacific Rise (EPR) and global seismic constraints of subridge structure. (a and b) The 2-D V_{SV} model as a function of age across the EPR from the joint MELT and

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GLIMPSE data by Harmon et al. (polynomial parameterization), as profiles at various ages both west and east of the ridge (Figure 1a) and in cross section (Figure 1b). Spreading velocity is 7.2 cm/yr; that is, 3 Myr ...

Seismic Velocity - an overview |

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ScienceDirect Topics

Seismic Layer 2A is typically identified by a shallow low-velocity layer over a sharp velocity gradient down to ≈ 5.2 km/s [Christeson et al., 1994]. Using this definition, the median Layer 2A thickness increases from ≈ 500 m on the south side of the Gofar fault to

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?700 m on the north side.

improved 1-D seismic velocity model
for seismological ...

seismic velocity model of sichuan
basin 1008 consistent with the
locations and displacements of major
fault system that are de?ned by a

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companion Community Fault Model
[Hubbard et al., 2012].

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