

GSA DATA REPOSITORY 2014321

The 2013 Lushan earthquake: Implications for seismic hazards posed by the range front blind thrust in the Sichuan basin, China

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This file includes figures, tables, models divided into seven Data Repository (DR) items:

1. Item DR1: distribution of seismic reflection data in the Sichuan basin (Figure DR1)
2. Item DR2: uninterpreted seismic reflection profiles includes line 01GSZ05, 2000dm09, 85D3328 (Figure DR2)
3. Item DR3: method, description and digital resources of 3D fault models
4. Item DR4: acquisition and processing parameters of shallow seismic reflection profiles
5. Item DR5: shallow seismic reflection profiles B and C in the Chengdu Plain, and calculation of slip rate on the Range Front Blind Thrust (RFBT) (Figure DR3)
6. Item DR6: industry seismic reflection profile L2 (Figure DR4)
7. Item DR7: industry seismic reflection profile E (Figure DR5)

Data Repository Item DR1

Figure DR1: Distribution of seismic reflection profiles used in this study to construct the 3d fault models. All the data are acquired by PetroChina from 1980s to 2000s. The yellow rectangle denotes the distribution of 3d faults model in Figure 3. The white solid lines denote the locations of seismic reflection profile AA', L2, E, which are shown on Figs.1, DR4 and DR5 respectively. Blue line B denotes the location of shallow seismic reflection profile B shown on Figs. 4b and DR.3. Blue line C denotes the location of shallow seismic reflection profile C.

Data Repository Item DR2

Figure DR2: Uninterpreted seismic reflection profiles include line 01GSZ05, 2000DM09, 85D3328, which are used to generate section A-A' in Figure 2.

Data Repository Item DR3

Description of the 3-D modeling of faults structures in the Sichuan basin

The fault models in this study, is an object-oriented three-dimensional representation of main faults in the Longmen Shan and western Sichuan basin. The model extends 29°-32.5°N and 102.5°-106°E, and includes the Beichuan fault, Pengguan fault, RFBT,

and Hongya fault that we discussed in this study. This modeling effort incorporates three-dimensional fault surfaces and seismic velocity models that were developed for the Sichuan basin region (Hubbard et al., 2012; Wang et al., 2012), and makes a series of refinements to these interpretations based on insights from the 2013 earthquake sequence and newly available seismic reflection profiles. Faults are represented as triangulated surfaces (t-surfs), which consist of nodes (x, y, and z) associated with one another in triangular elements. The resolution on this surface model ranges from 0.2–3 km, based on the quality on the different seismic reflection profiles. These surfaces were defined in western Sichuan basin by georeferencing and integrating various types of geological and geophysical data that help constrain fault geometries in Gocad (Mallet, 1992), a 3D geological modeling application. These datasets included detailed geologic maps and seismicity catalogs, as well as seismic reflection profiles and well data that were provided by Petrochina (Fig. DR1).

We provide the surface models of faults that we discussed in this study:

Model DR1: Beichuan fault

Model DR2: Pengguan fault

Model DR3: The RFBT fault

Model DR4: Hongya fault

Models are also provided in the attachments of the pdf.

Data Repository Item DR4

Acquisition and processing parameters of shallow seismic reflection profiles:

Machine	receiver interval	source interval	channels	fold
M-615-18 Vibroseis truck	3 m	18 m	300	25

Data Repository Item DR5

Figure DR3: Interpretation of shallow seismic reflection profiles B and C in the Chengdu Plain. See locations of profiles B and C at Figure 1. Horizons interpreted on the seismic profiles were correlated with stratigraphic picks from several hydrology exploration wells (CHRT, 1977), as well as a geological map at a scale of 1: 200,000 (BGMRSP, 1976 and 1982), and insights from our previous interpretation on shallow seismic reflection profiles in the southwestern Sichuan basin (Wang et al., 2013). Horizon and ages: Ki1, Ki2 and Ki, Cretaceous interval layers; Q1, Dayi Formation, bottom Pleistocene, burial ages are ~ 2 Ma based on the TCN method by Kong et al. (2011); Q2, Ya'an Formation, middle Pleistocene, depositional age from 0.56~1.09 Ma based on a magneto-stratigraphy study by Zhao et al. (2011); Q3, Chengdu clay Formation, top Pleistocene, depositional age from ca. 10-70 ka based on radiocarbon dating (Chen and He, 1990) and optically stimulated luminescence (Liang et al.,

2013); Q4, Holocene. We highlight the uplift of Q2 (middle Pleistocene Ya'an Formation) and its corresponding age, and then translate this uplift to a slip based on the relationship from Shaw et al., (2002) assuming a fault dip of 33-56°. Final, we obtain the range of slip rate for the RFBT to be 0.13-0.39 mm/yr.

Data Repository Item DR6

Figure DR4: Interpretation of industry seismic reflection profile L2 in the Sichuan basin, modified from our previous study by Jia et al., (2010). The large rectangle denotes the locations of Figure 4a, showing the hanging wall deformation associated with the RFBT. The small rectangle denotes the location of shallow seismic reflection profile B, which is shown on Fig. 4b. The RFBT extends into the basin, and forms the structural wedge, with its wedge-tip at about 8-9 km. The hanging wall of the RFBT contains a kink band, which extend from the ramp to the surface. This kink band is formed by the splay fault on the RFBT, thus the growth triangle on the shallow seismic reflection profile B records the activity on the RFBT. The range of possible splay fault dips is 33°-56°, which is constrained using the dips range of the axial surface (upper limit) and the ramp dips (lower limit) on the RFBT.

Data Repository Item DR7

Figure DR5: Interpretation of industry seismic reflection profile E in the Sichuan basin. The large rectangle denotes the locations of shallow seismic reflection profile C, which is shown on Fig. 4c. A splay fault of the RFBT rises from the ramp to the near surface, and displaces geological Triassic and younger layers in the hanging wall. We interpret this fault propagates to the shallow surface, producing the tip folding, and forming two back thrusts, which are shown on shallow section C. PGT, Pengguan thrust fault; RFBT, Range Front blind thrust, J, Jurassic; T, Triassic.

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Figure DR1

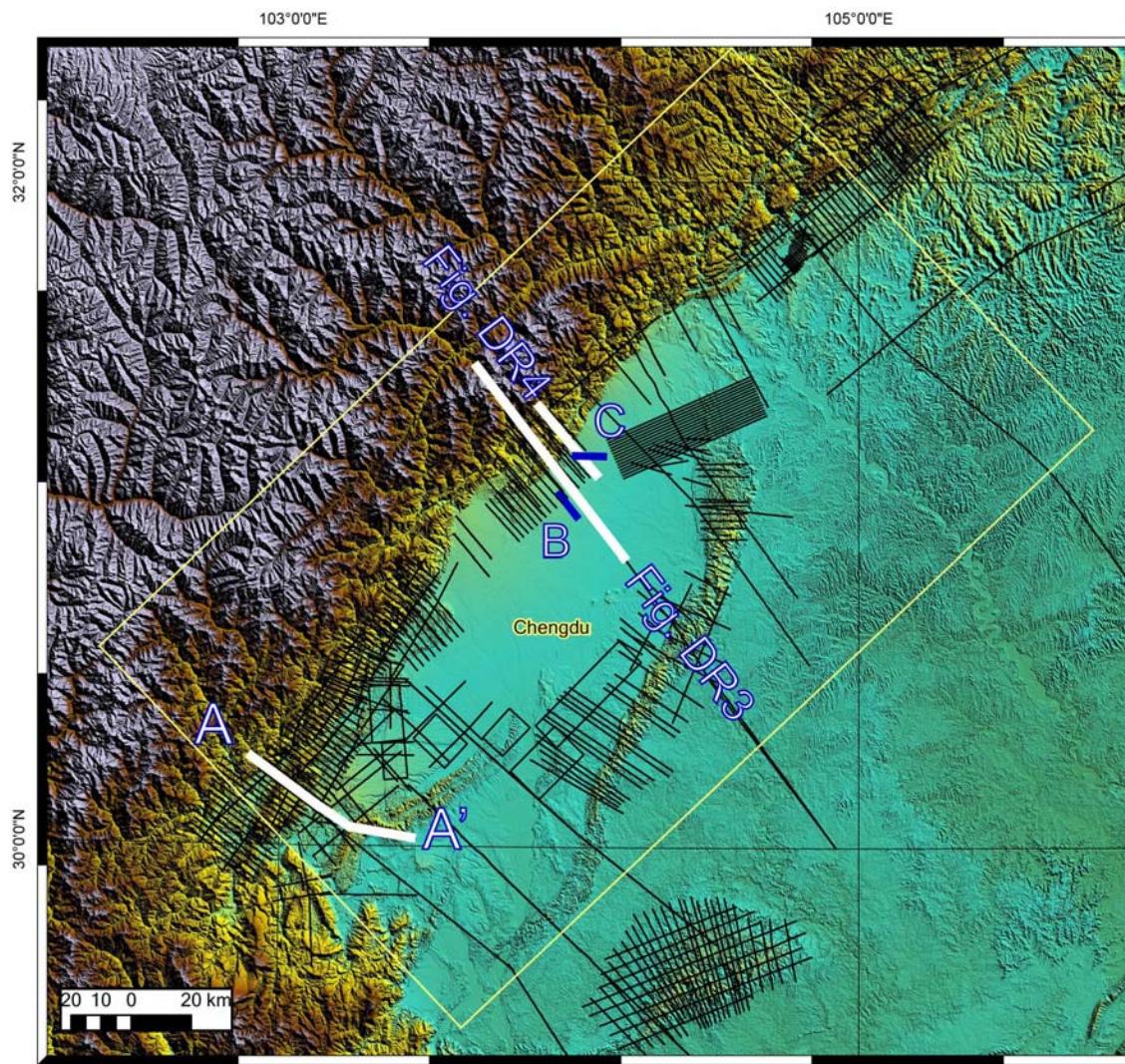


Figure DR2

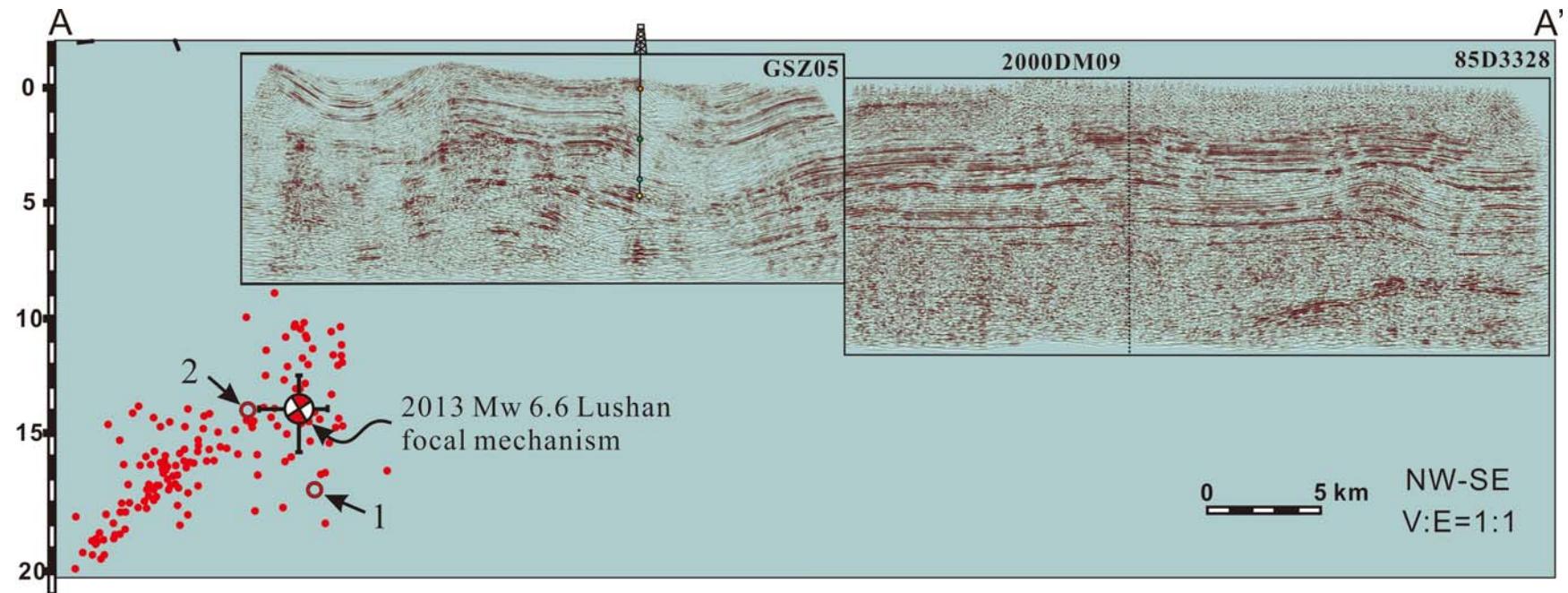


Figure DR3

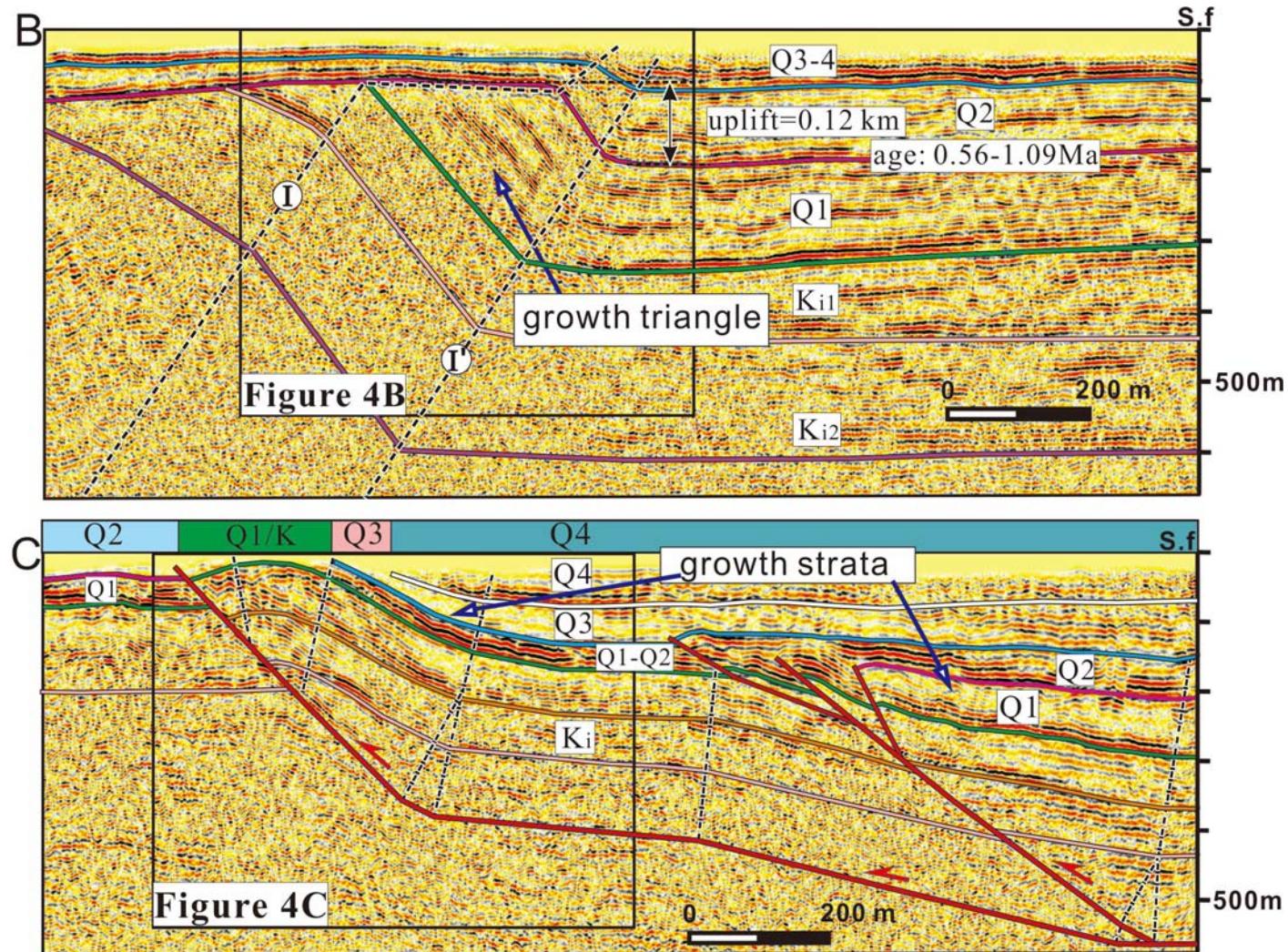


Figure DR4

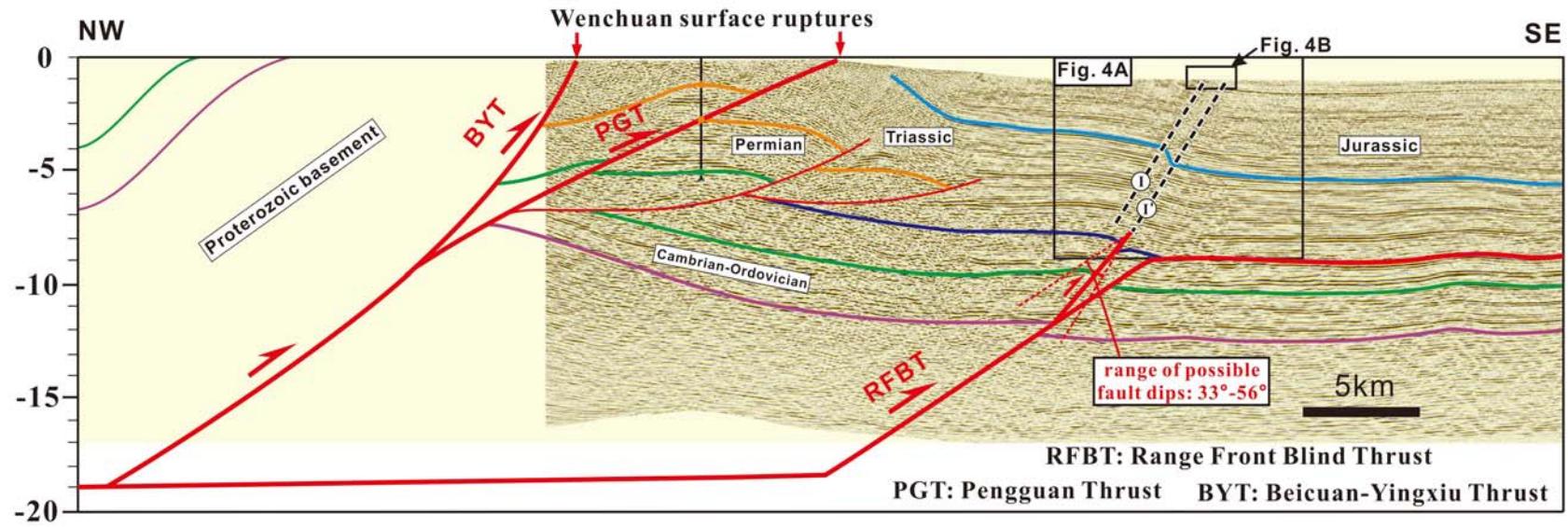
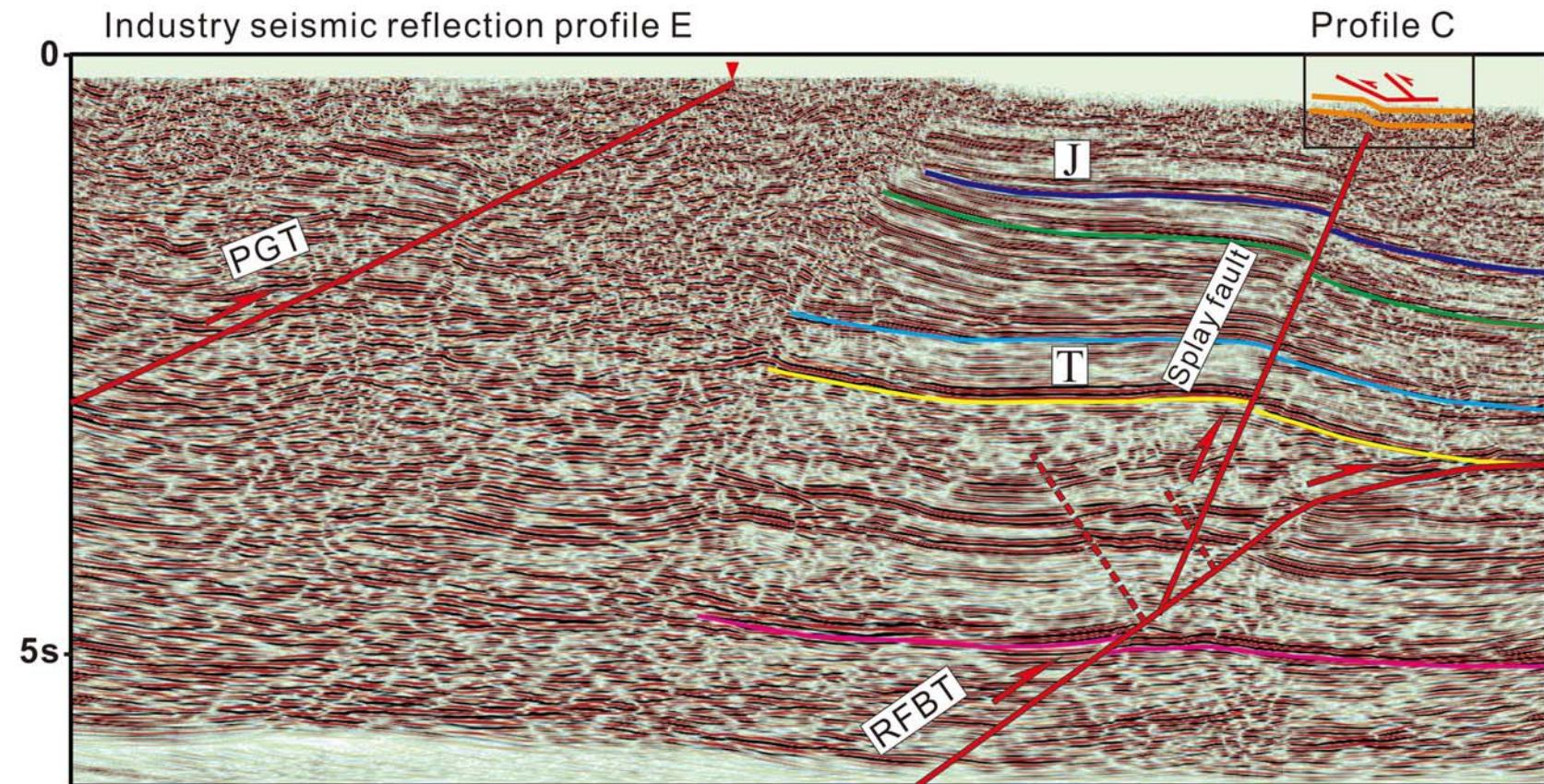


Figure DR5



Model 1: Beichuan fault

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AXIS_UNIT "m" "m" "m"
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}
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BORDER 160 125 79
END

Model 2: Pengguan fault

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ivolmap:false
imap:false
cnstr_visible_mode:Hide_All
*regions*Region_1*color:wheat
regions:on
*regions*Region_1*visible:on
*regions*region:Region_1
name:Pengguan_v3a
}
GOCAD_ORIGINAL_COORDINATE_SYSTEM
NAME Lushan
AXIS_NAME "X" "Y" "Z"
AXIS_UNIT "m" "m" "m"
ZPOSITIVE Depth
END_ORIGINAL_COORDINATE_SYSTEM
PROPERTY_CLASS_HEADER Z {
is_z:on
}
TFACE
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VRTX 3 407877.65625 3498511.78125 7185.25
VRTX 4 411008.75 3501768.03125 7165.75
VRTX 5 419695.59375 3501204.78125 5740.67822265625
VRTX 6 417897.421875 3508219.28125 8270.625
VRTX 7 424733.4375 3512834.3125 8743.125
VRTX 8 430578.765625 3515003.734375 7583.375
VRTX 9 437711.9375 3514535.296875 6278.30908203125
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VRTX 11 432669.390625 3509641.4375 5858.58544921875
VRTX 12 438670.515625 3509563.0625 4113.23876953125
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VRTX 14 436169.3828125 3501919.40625 1605.803955078125
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VRTX 23 426668.5390625 3506884.125 6465.419921875
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VRTX 40 415640.234375 3473143.078125 -885.625
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VRTX 43 406955.0625 3466803.828125 -909.38641357421875
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VRTX 45 391619.078125 3477198.71875 5790.9619140625
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VRTX 67 379536.1875 3461573.375 4863.98095703125
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BORDER 80 45 28
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Model 3: Range Front blind thrust

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name:RFBT3
mesh:false
*solid*color:0.588235 0.321569 0.176471 1
ivolmap:false
imap:false
painted:off
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*isovalues*Z_5000*step:5000
*isovalues*Z_5000*variable:Z
*isovalues*Z_5000*visible:true
*isovalues*Z_1000*step:1000
*isovalues*Z_1000*variable:Z
*isovalues*Z_1000*visible:true
*isovalues*Z_1000*color:white
*isovalues*names: Z_5000 Z_1000
TSurflsoAssociation:on
}
GOCAD_ORIGINAL_COORDINATE_SYSTEM
NAME Lushan
AXIS_NAME "X" "Y" "Z"
AXIS_UNIT "m" "m" "m"
ZPOSITIVE Depth
END_ORIGINAL_COORDINATE_SYSTEM
PROPERTY_CLASS_HEADER Z {
is_z:on
low_clip:-905.125
high_clip:20436
pclip:99
}
TFACE
VRTX 1 350507.859375 3291189.29296875 4308.92333984375
VRTX 2 352314.91015625 3289587.29296875 4296.7666015625
VRTX 3 346560.2265625 3292677.72265625 4384.4228515625
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VRTX 17 374040.65625 3266515.546875 3711.68994140625
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VRTX 20 312992.98120117187 3306886.59765625 4857.46435546875
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Model 4: Hongya fault

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