

EW9903 - Guatemala ODP Site Survey
Processing History (provided by Graham Kent)

SIOSEIS/Stack Example: ".stack."

```
sioseis << eof
procs diskin header nmo mute stack prout diskoa end

diskin
  ipath line24.g.2085.3585 fno 2085 lno 3585 end
  ipath line24.g.3586.5085 fno 3586 lno 5085 end
  ipath line24.g.5086.6585 fno 5086 lno 6585 end
  ipath line24.g.6586.7389 fno 6586 lno 7389 end
end

header
  fno 0 lno 999999 ftr 0 ltr 99999
  r50 = 116 / 750.
  end
end

nmo
  stretc 2
  fno 1 lno 999999
  vtp 1500 4.82
    1525 5.09
    2175 5.628
    2269 5.691
    2363 5.755
    2539 5.886
    2620 5.949
    2702 6.018
    2844 6.143
    2908 6.203
    2974 6.265
    3093 6.383
    3152 6.442
    3208 6.501
    3314 6.614
    3366 6.670
    3417 6.726
    3482 6.795
    3542 6.844
    3607 6.899
    3662 6.946
    3704 6.983
  end
end

mute
  fno 1 xtp 2370 4.4 2680 4.8 3310 5.8 6120 6.7 end
end

prout
  fno 0 lno 99999 ftr 1 ltr 1 end
end

diskoa
  opath odp.24.stack.segy end
end

end
eof
```

SIOSEIS/Depth Migration Example: ".migr."

```
sioseis << !
procs diskin filter psmigr prout diskoa end

diskin
  ipath odp.24.stack.segy
  set 0.0 8.0
  fno 2600 lno 6920 end
end

filter
  ftype 0 pass 5 40 dbdrop 60 end
end

psmigr
  deltax 6.25 deltaz 20 vskip 1500 zskip 3550 ez 11000
  bpad 200 epad 200 mtap 25 twinlen 0.25
  ref 0 nvsmth 3
  fmin 1 fmax 80 sgypath vmodel_24_deep.segy
  fno 0 lno 99999 vdp
1500.0 3721.0
1700.0 3741.0
1700.0 3877.4
4745.7 3897.4
4855.0 4097.4
5115.9 4297.4
5352.4 4497.4
5692.2 4697.4
6056.6 4897.4
6401.5 5097.4
6593.0 5297.4
6598.3 5497.4
6648.1 5697.4
6703.2 5897.4
6752.5 6097.4
6840.0 6351.0
6901.0 6552.0
7174.0 7371.0
7467.0 8186.0
7721.0 8796.0
7914.0 9201.0
8159.0 9817.0
8229.0 10021.0
8445.0 10848.0
8467.0 11116.0
8467.0 13000.0
  end
end

prout
  fno 0 lno 99999 ftr 1 ltr 1 trinc 100 end
end

diskoa
  opath odp.24.mig.segy end
end

end
```

SIOSEIS/Time Migration Example: ".fdmigr."

```
#!/bin/csh
sioseis << !
procs diskio fdmigr prout header diskio diskob end

diskio
  ipath odp.24.stack.segy
  fno 2600 lno 7389 set 4.0 8.0 end
end

fdmigr
  dx 6.25 nx 4990 maxsam 4001 bpad 100 epad 100 opad no path
  scratch lprint 127
  fno 2600 lno 7400 tsteps 8.0 0.020
  vtp      1500 4.82 1525 4.99 1525 5.04 1525 5.15
           2175 5.628
           2269 5.691
           2363 5.755
           2539 5.886
           2620 5.949
           2702 6.018
           2844 6.143
           2908 6.203
           2974 6.265
           3093 6.383
           3152 6.442
           3208 6.501
           3314 6.614
           3366 6.670
           3417 6.726
           3482 6.795
           3542 6.844
           3607 6.899
           3662 6.946
           3704 6.983
           4000 8.000
  end
end

prout
  fno 1 lno 99999 end
end

header
  fno 0 lno 9999999 ftr 1 ltr 9999
  r10 16 * 1.0 # stuff cdp number into range
  end
end

diskio
  opath odp.24.fdmigr.segy set 4.0 8.0 end
end

diskob
  opath odp.24.fdmigr.upper.segy set 4.0 5.4 end
end

end
```