Jupiter-North Sea

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ABSTRACT

Real 3-D dataset from the North Sea.

DATA INFORMATION

Raw Data Available on DLT tapes
Velocity Model /data_3d/jupiter_north_sea/vel.H
Stack /data_3d/jupiter_north_sea/jupiter_nears.H
Usage Common-azimuth depth migration (Biondi, 1996)
Geometry

```
-----------------------------------------------------------------
                ********** jupiter_sort.H ************
         4 -esize          Unsynched        data_format-xdr_float
-----------------------------------------------------------------
n1=876           o1=0.000000     d1=0.004000     label1=time
n2=5529905       o2=1.000000     d2=1.000000     label2=trace number
Data: in=DLT tapes;
    5529905 elements, 19376787120 bytes in data file
-----------------------------------------------------------------
keynumber=1      keytype=scalar_int      keyname=sx
keynumber=2      keytype=scalar_int      keyname=sy
keynumber=3      keytype=scalar_int      keyname=gx
keynumber=4      keytype=scalar_int      keyname=gy
keynumber=5      keytype=scalar_int      keyname=cdp
keynumber=6      keytype=scalar_int      keyname=offset
keynumber=7      keytype=scalar_int      keyname=data_record_number
keynumber=8      keytype=scalar_float    keyname=s_x
keynumber=9      keytype=scalar_float    keyname=g_x
keynumber=10     keytype=scalar_float    keyname=s_y
keynumber=11     keytype=scalar_float    keyname=g_y
keynumber=12     keytype=scalar_float    keyname=cmp_x
keynumber=13     keytype=scalar_float    keyname=cmp_y
```

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```
keynumber=14     keytype=scalar_float    keyname=offset_x
keynumber=15     keytype=scalar_float    keyname=offset_y
keynumber=16     keytype=scalar_float    keyname=aoffset
keynumber=17     keytype=scalar_float    keyname=azimuth
n2=5529905       o2=1.000000     d2=1.000000     label2=trace_number
Headers in=/scrsa4/marie/jupiter/jupiter_sort.H@@@
   94008385 elements,   376033540 bytes in data file
----------------------------------------------------------------
grid axis2       n2=22   o2=1.000000     d2=1.000000     label2=trace_in_bin
grid axis3       n3=107          o3=95.000000    d3=20.000000    label3=aoffset
grid axis4       n4=29   o4=-1.400000    d4=0.100000     label4=azimuth
grid axis5       n5=49   o5=13500.000000         d5=150.000000   label5=cmp_x
grid axis6       n6=393          o6=16100.000000         d6=12.500000    label6=cmp_y
Grid   in=/scrsa4/marie/jupiter/jupiter_sort.H@@@@@
 1314598362 elements,  5258393448 bytes in data file
----------------------------------------------------------------
----------------------------------------------------------------
```

Problem
History of Data
Preprocessing
Proprietary Considerations

REFERENCES

Biondi, B., 1996, Common-azimuth prestack depth migration of a North Sea data set: SEP–**93**, 1–14.

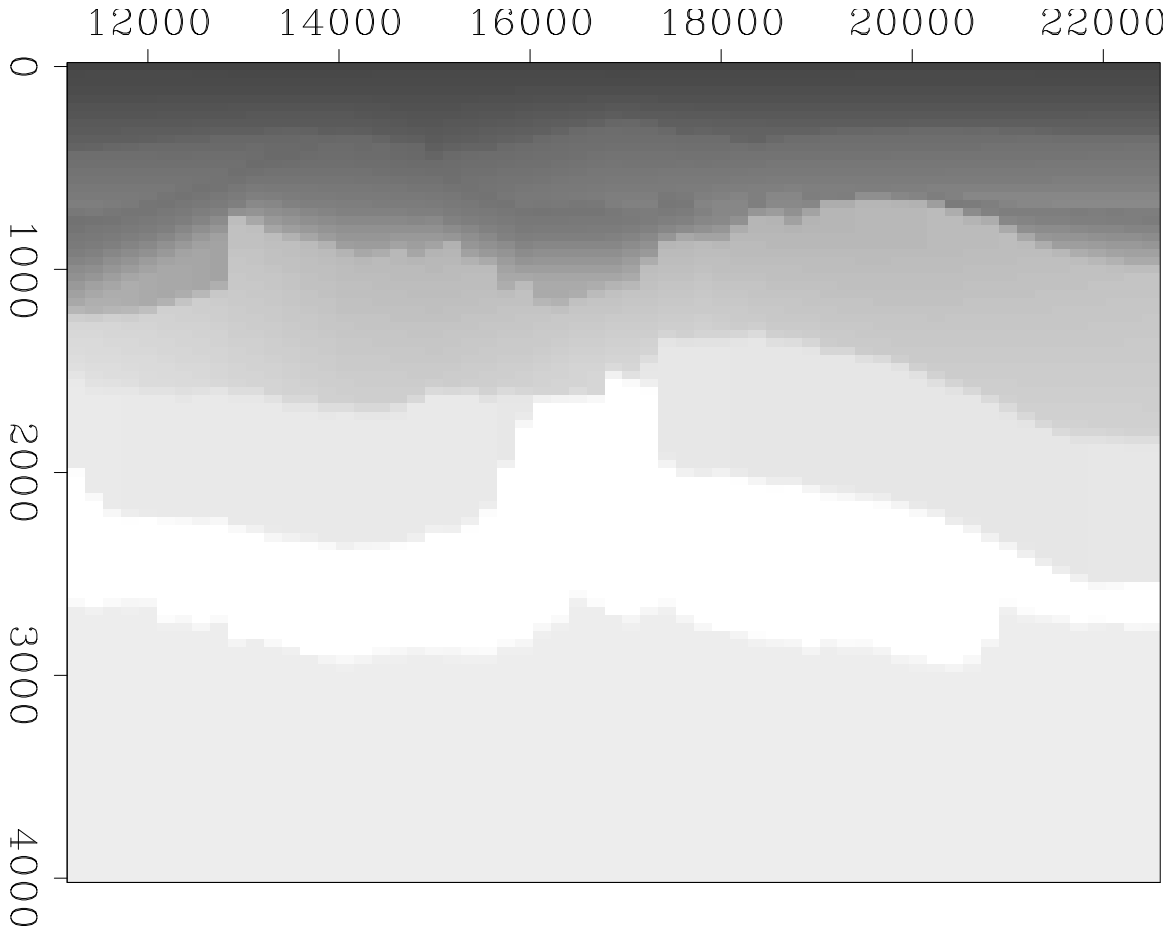

Figure 1: Velocity model jupiter-northsea-velmod [ER]

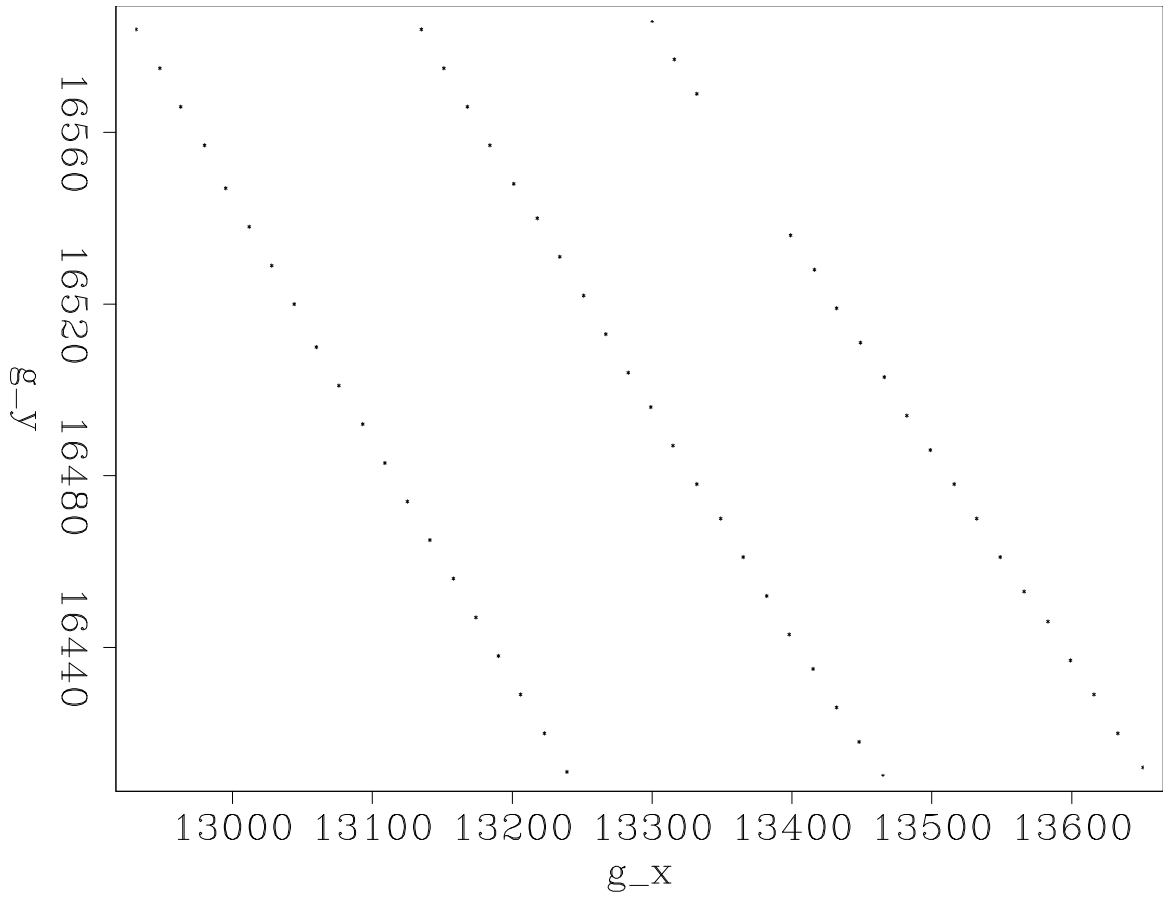

Figure 2: Receiver locations for a single shot jupiter-northsea-shot-layout [NR]

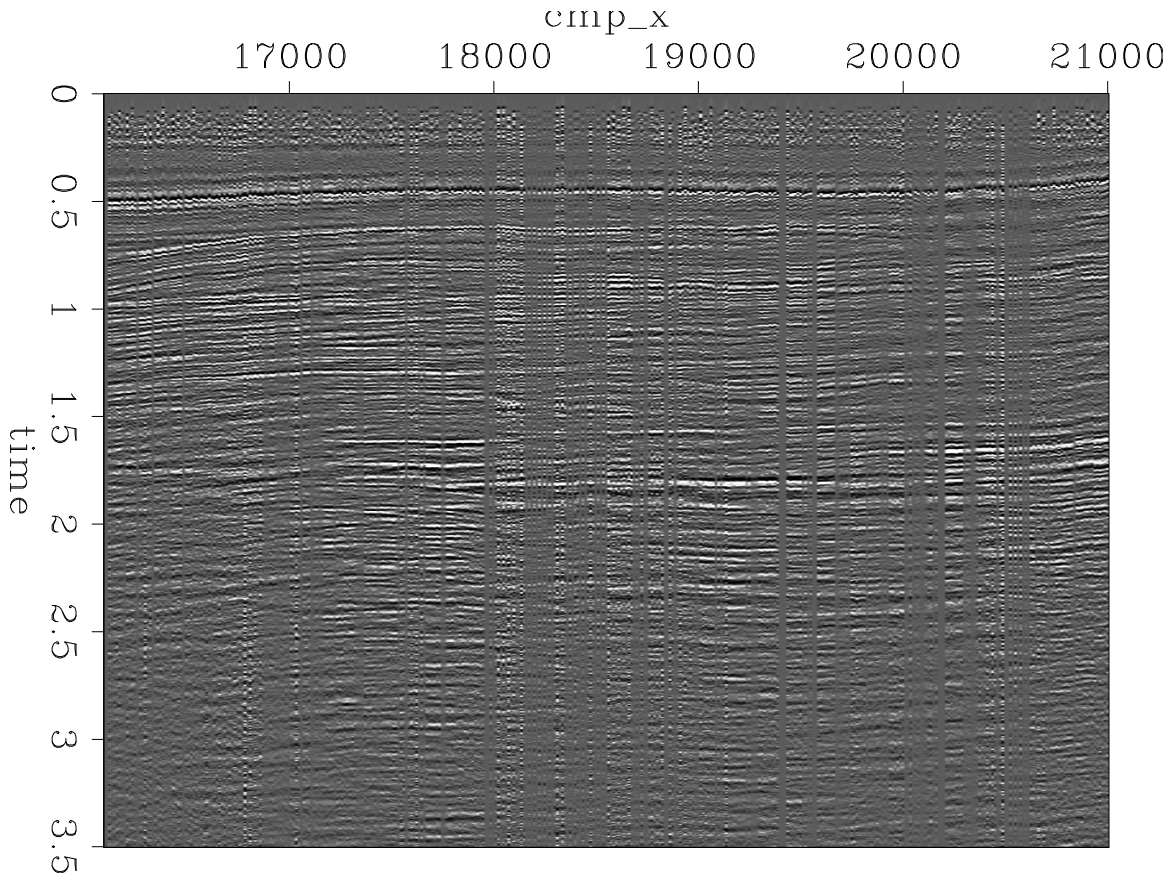

Figure 3: Near offset stacked data jupiter-northsea-stack [ER]

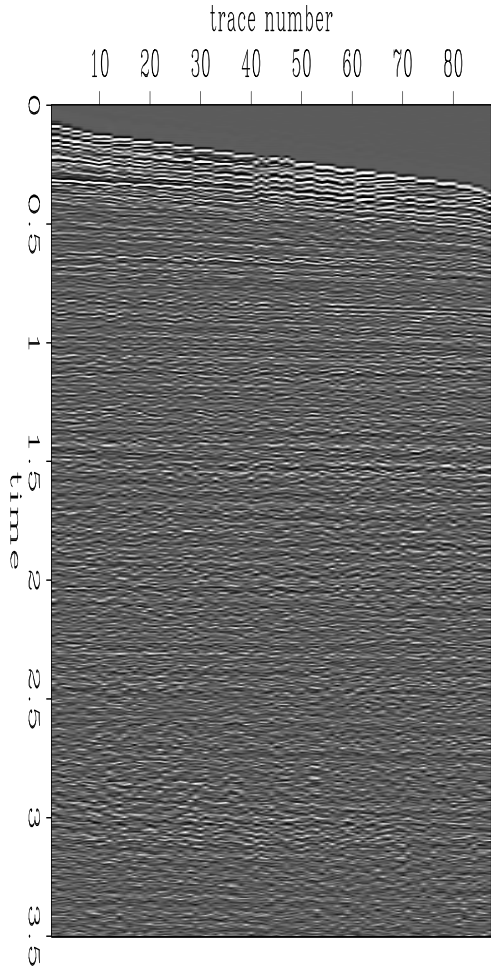

Figure 4: CMP gather jupiter-northsea-cmp [ER]

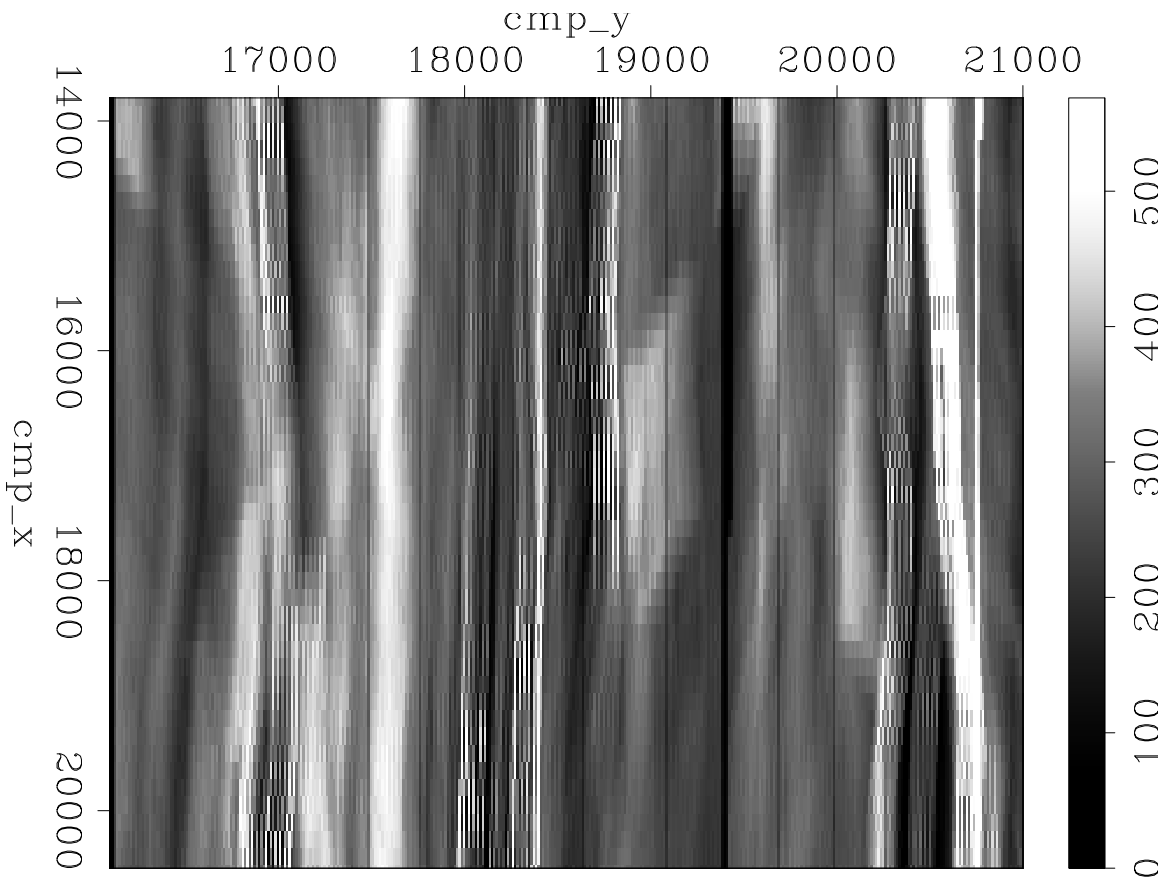

Figure 5: Fold map in cmp space jupiter-northsea-cmp-fold [NR]

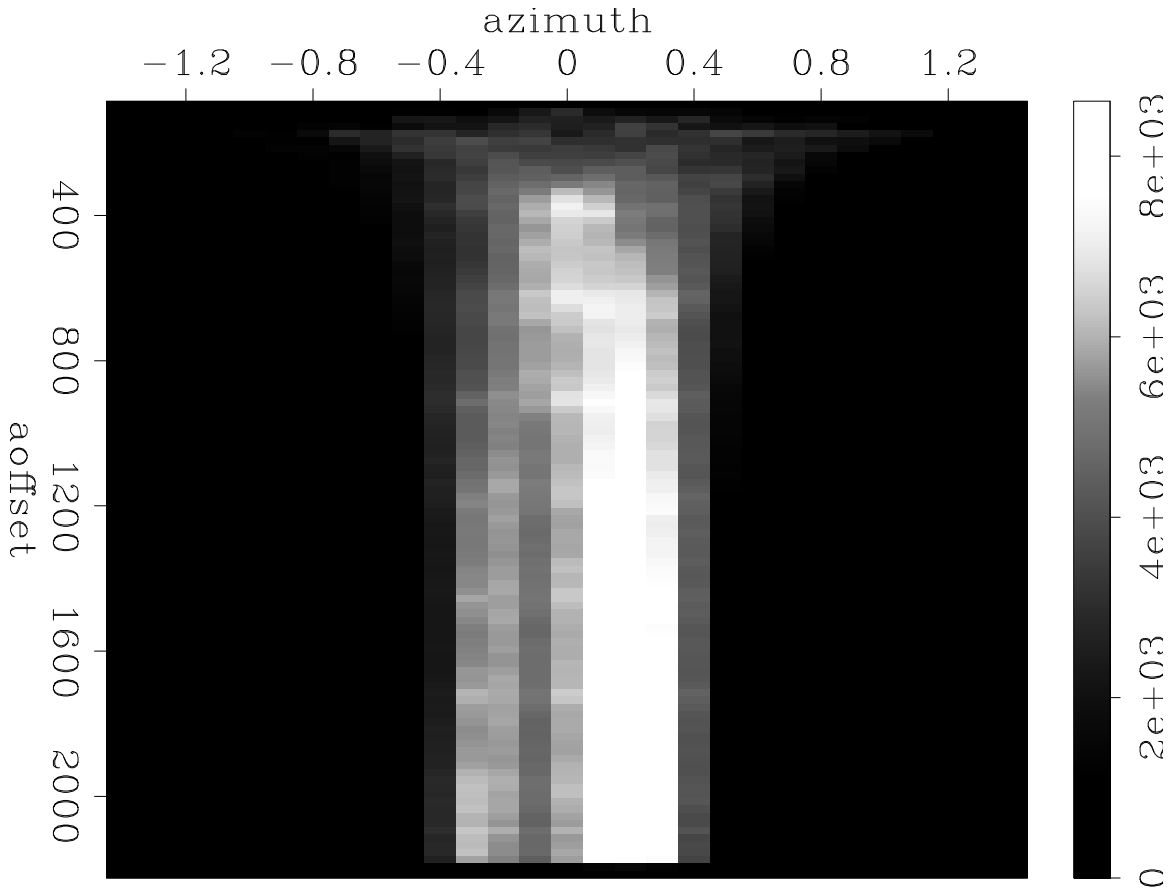

Figure 6: Fold map in absolute offset/azimuth space jupiter-northsea-offset-fold [NR]