```
 &option
     tmax=2400.0 ntgraf=5  stepsz=0.750 start=.t. tsave=480.0
     restartFileNumber=1
/

 &earth
     xdip=0.00001 ydip=0.00000 zdip=0.000000 rearth=6.0
          tilt1=-90.0 tilt2=-90.0 tilting =.f.
          rmassq=1. rmassh=1. rmasso=16.
/
 &speeds
     cs_inner=0.001 alf_inner1=0.89 alf_inner2=0.89 alpha_e=6.0
         den_earth=200.  o_conc=0.05 gravity=5.0 ti_te=5.
         gamma=1.6666 ringo=.f. update=.f. reload=.f.
/
 &windy
     re_wind=35. cs_wind=0.015 vx_wind1=0.40 vx_wind2=0.40
     vy_wind1=0.000 vy_wind2=0.000 vz_wind1=-0.00 vz_wind2=-0.00
     alfx_wind1=0.00005 alfx_wind2=0.00005
     alfy_wind1=-0.00 alfy_wind2=-0.00
     alfz_wind1=0.063 alfz_wind2=0.063
     den_wind1=3.5 den_wind2=3.5
     reynolds=12.0  resist=12.  rho_frac=0.002
     bfrac=1.0 vfrac=1.0
/
 &physical
     re_equiv=0.444 b_equiv=65.75 v_equiv=1000. rho_equiv=2.
     spacecraft=.f. warp=.f.  utstart=0.0
/
 &smooth
    chirho=2.0 chipxyz=2.0  chierg=2.0
    difrho=0.005 difpxyz=0.005 diferg=0.005
/
 -36.   52.  -24.  24.   -24.  24. 1.   2         0
 -64.  112.  -48.  48.   -48   48. 2.   3         1
 -120. 232.  -96.  96.   -96   96  4.   4         2
 -160. 544. -192. 192.  -192  192  8.   0         3

                         ncore     nbdry
                         m = small      m=big
                         ncore = big    nbdry=small
 Restart from oxz111 for hightime resolution movie

tmax = total duration in sim units - 300 units is about 30 mins
ntgraf is number of graphical outputs per run
stepsz : fraction of the maximum of courant conditions
start : true if initializing a new run
        false if looking up restart data
```

```
tsave : time steps between saving restart data

position of the earth given by xdip,ydip,zdip ! don't change
     can't be exactly at a grid point due to dipole approximation
rearth: radius of inner boundary - this with re_eqiv sets how many
         earth radii out

dipole tilt : earth magnetic field will tilt from titl1 to tilt2 (in degrees)
     over the sim period (opposite to GSM angle)
tilting true gives varible tilting; false fixed tilt angle

mass different species: q refers to the solar wind
                        h               ionospheric ions
                        o           heavy ionospheric ions
      rmassq mass of the solar wind ions : 1 for protons
      rmassh             ionospheric protons
      rmasso mass of heavy ions  : 16 for oxygen

Specification of Earth inner boundary
  cs_inner : sound speed at the equator in sim units! code
             automatically makes the polar regions colder than equator
  alf_inner: Alfven speed at the equator in sim units! requires
  den_earth: equator density in sim unit (use rho_equiv to convert to real units
             proton density
  assymteries in in density over polar cap is hard coded as the parameter
            ar_iono in code  symmetric is
              ar_iono=sqrt(xp**2+ay**2+zp**2)
             4 to 1 anisotropy with less density at the equator
              ar_iono=sqrt(xp**2+ay**2+2.*zp**2)
  alpha_e  don't change - specifies initial falloff of plasmasphere


  O_conc percent concentration relative to proton density
  gravity is at inner boundary in m/s/s
  ti_te is the ion to electron temperature ratio
  gamma is polytropic index = 5/3

  ringo does not do anything

  update = change zero clock time - false no change
  reload = updates unperturbed quantities used for diffusion for stability of
code
         - least numerical diffusion for true
           but code can be unstable

Solar wind parameters are in windy
 uses user specified quantities if spacecraft = .f. and uses
   spacecraft specifed data if true
```

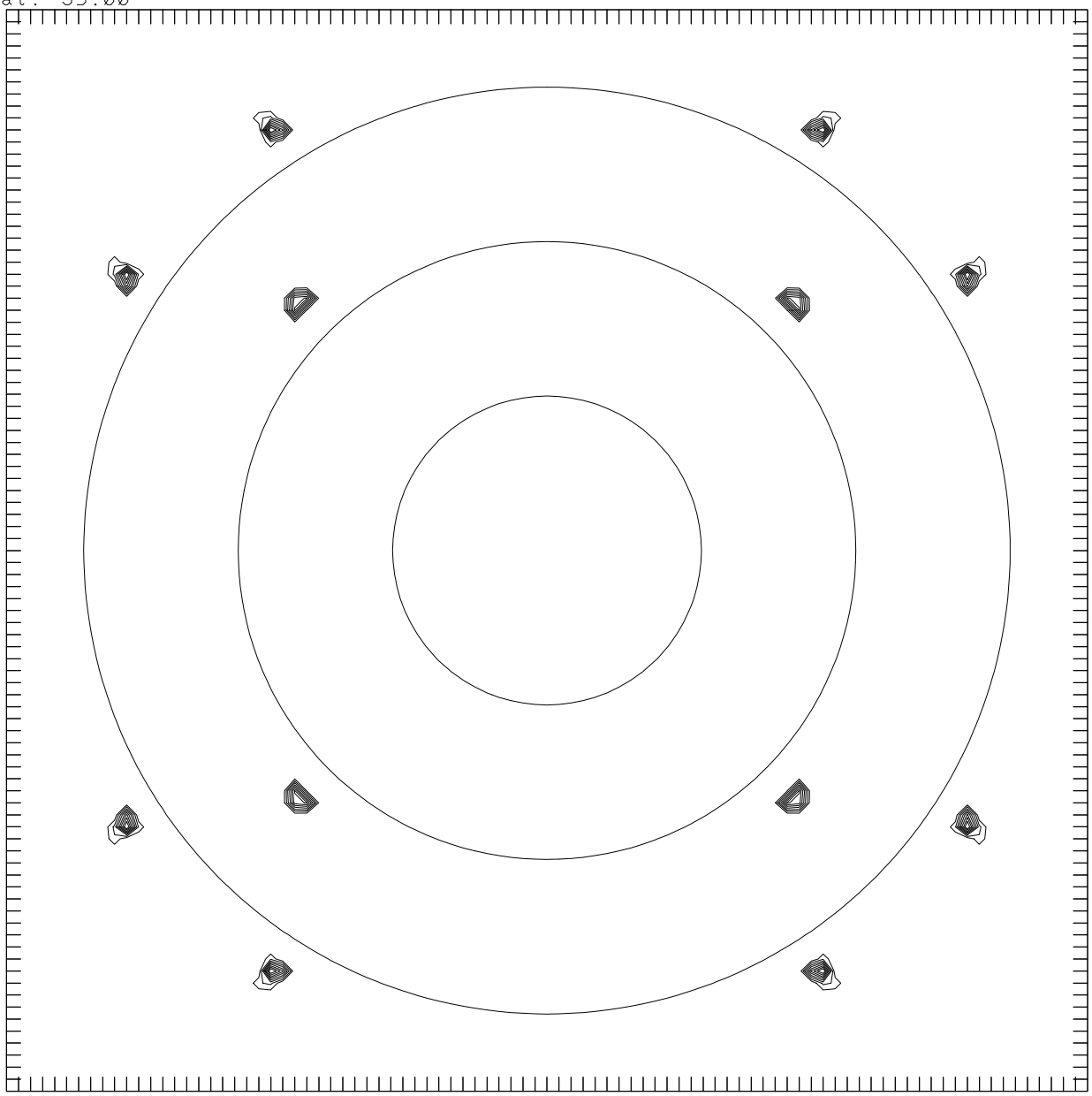
```
  re_wind is unimportant ! how many grid points in for solar wind start
  cs_wind sound of wind: not critical
  all other wind parameters change 1 from 2 over the sim period

Reynolds  is grid spacing/ion skin depth (for protons assuming unit sim density)
Resist     is collisional reynolds number at the ionosphere
         Any small numbers than 12 code tends to go unstable
         ideal Ohms law for large Reynolds
rho_frac oxygen density can't be zero anywhere have to put a very small
    about of O in solar wind

bfrac and vfrac are useless parameters

warp - is want a varaible Bx in IMF requires warped flow of solar wind into
system

re_equiv is the number of Re that a grid unit corresponds to
v_equiv  is what a normalized velocity of 1 sim unit is in km/s
sim time step of 1 needs that something with 1 sim vel goes one grid unit
         in 1 tim sim unit
rho_equiv is in cm^-3
b_equiv in nT

t=1 is sec is  re_equiv/v_equiv
Utstart is start in real time in UT

Smooth
  standard coeffs for lapidus/local diffusion operators ! don't need to change

Numbers are a grid system for box in box
   in grid units
xmin,xmax,ynmin,ymax,zmin,zmax  grid spacing ncore nbdry
                ncode is the number for the box it will provide inner bndry
conditions
                ndry box that provides inner boundary conditions

Dimensions of grids in parameter statment in main code (1-nx)

 nx=89,ny=49,nz=49,nt=8,ngrd=4,ncraft=4,ncts=1172

number of boxes ngrd
                nt = 2*ngrd !required

if you want more boxes change ngrid but need to aslo change occurrences of (4)
in
common statements to new number

  Fixed spacecraft probes - total number presently set at 4
```

ncts is the number od data points in spacecraft data file if spacecraft is true

3D MUTANT CODE

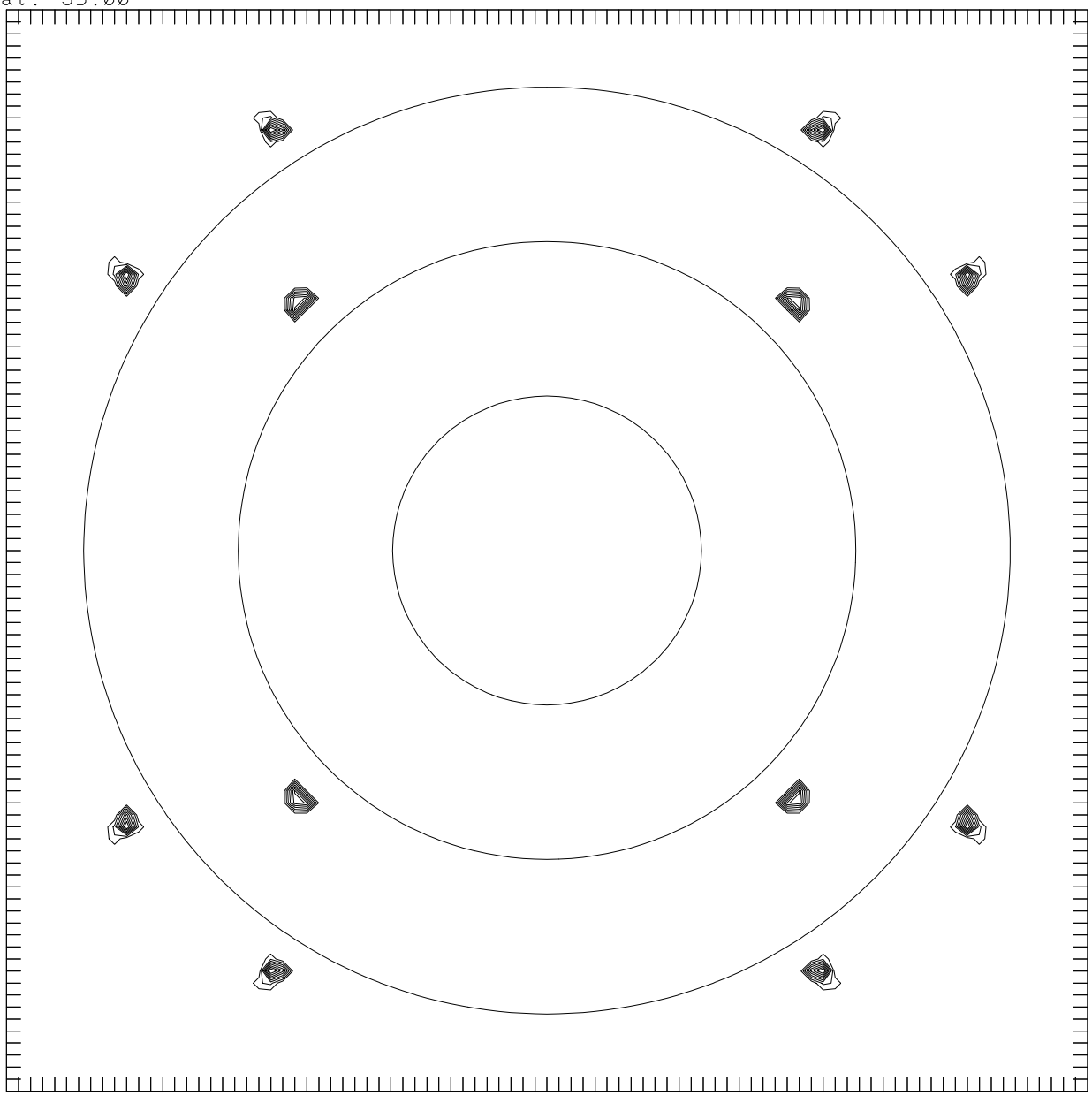
```
                                                        stepsz = 0.750
xdip = 0.000      ydip = 0.000      zdip = 0.000
rearth =   6.0
cs_inner = 0.00   alf_inner1= 0.8   alf_inner2= 0.8   den_earth = 200
o_conc = 0.050    gmass0y=550000
rho_wind1= 0.00   rho_wind2= 0.00   vx_wind1 = 0.40   vx_wind2 = 0.40
vy_wind1= 0.000   vy_wind2= 0.000   vz_wind1 = 0.00   vz_wind2 = 0.00
alfx1 = 0.000     alfx2 = 0.000     alfy1 = 0.000     alfy2 = 0.000
                                    alfz1 = 0.063     alfz2 = 0.063
re_wind =  35.0   reynolds =   12   resist =   12.
                  bfrac = 1.000     vfrac = 1.000
chirho = 2.000    chipxyz = 2.000   chierg = 2.000
chirho = 0.005    chipxyz = 0.005   chierg = 0.005


tilt1 = **** tilt2 = ****
```

min 0.0000 fmax 0.0896 res nthr: aurora ut = 0.00
lat. 35.00



min 0.0000 fmax 0.0896
lat. 35.00

res sthq: aurora ut = 0.00



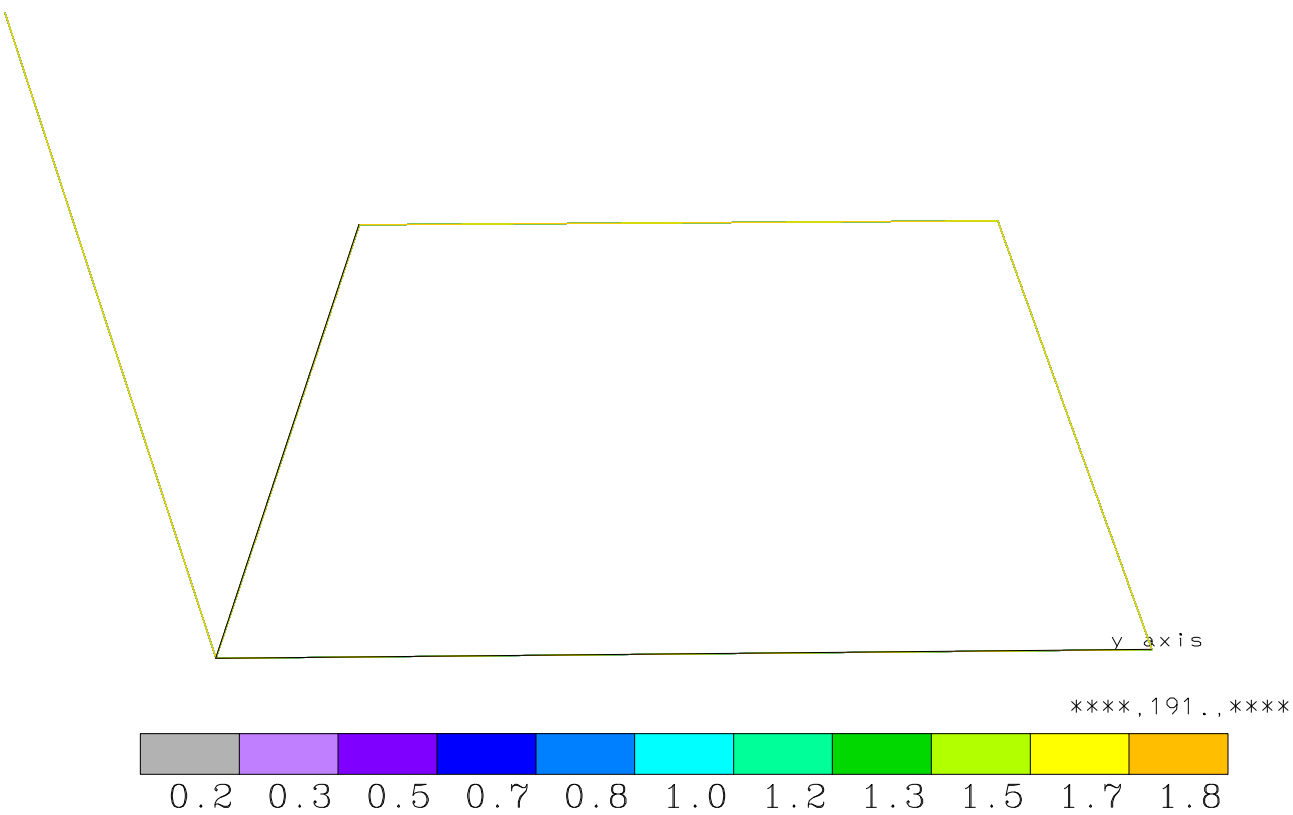
qpreshpr ut = 0.00

units 1.00E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



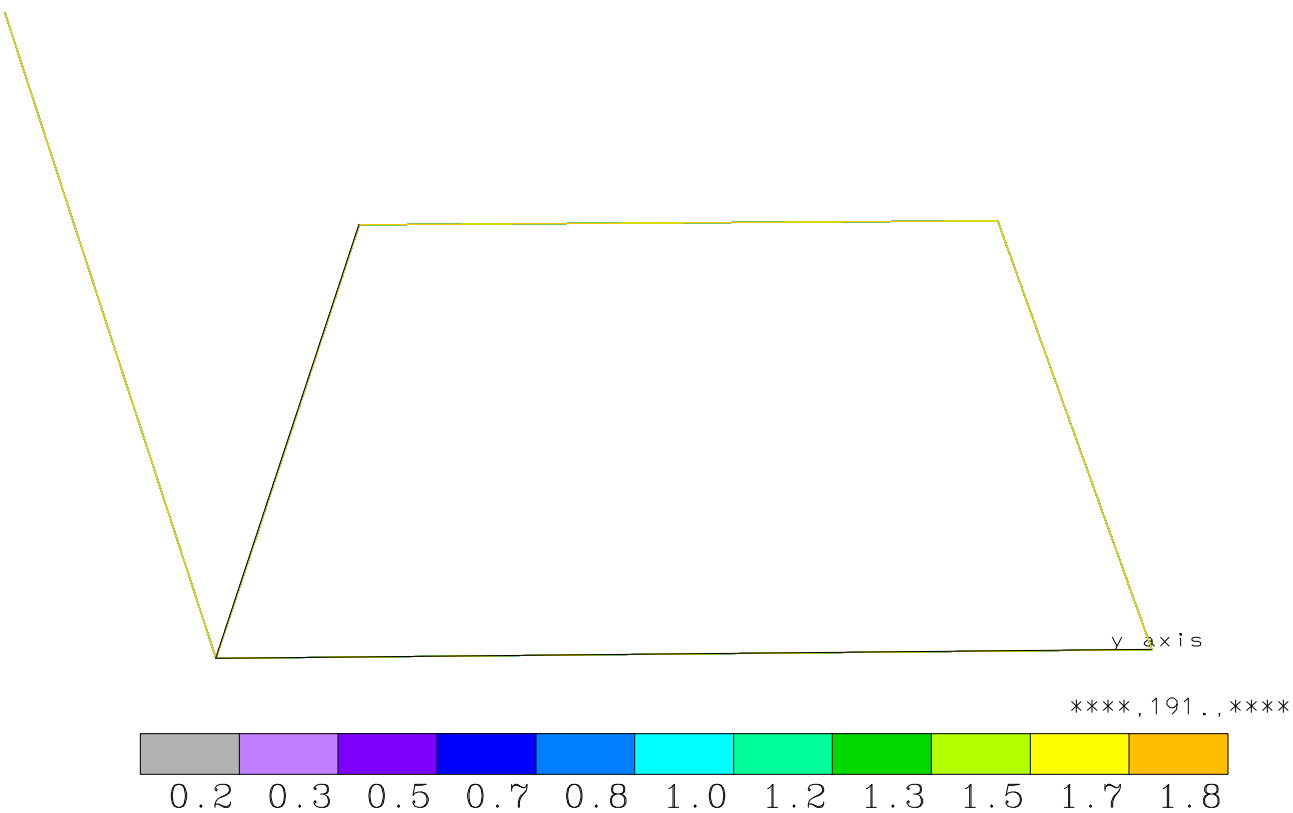
hpresopr ut = 0.00

units 1.00E-01 min 0.00E+00 max 4.84E-03

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



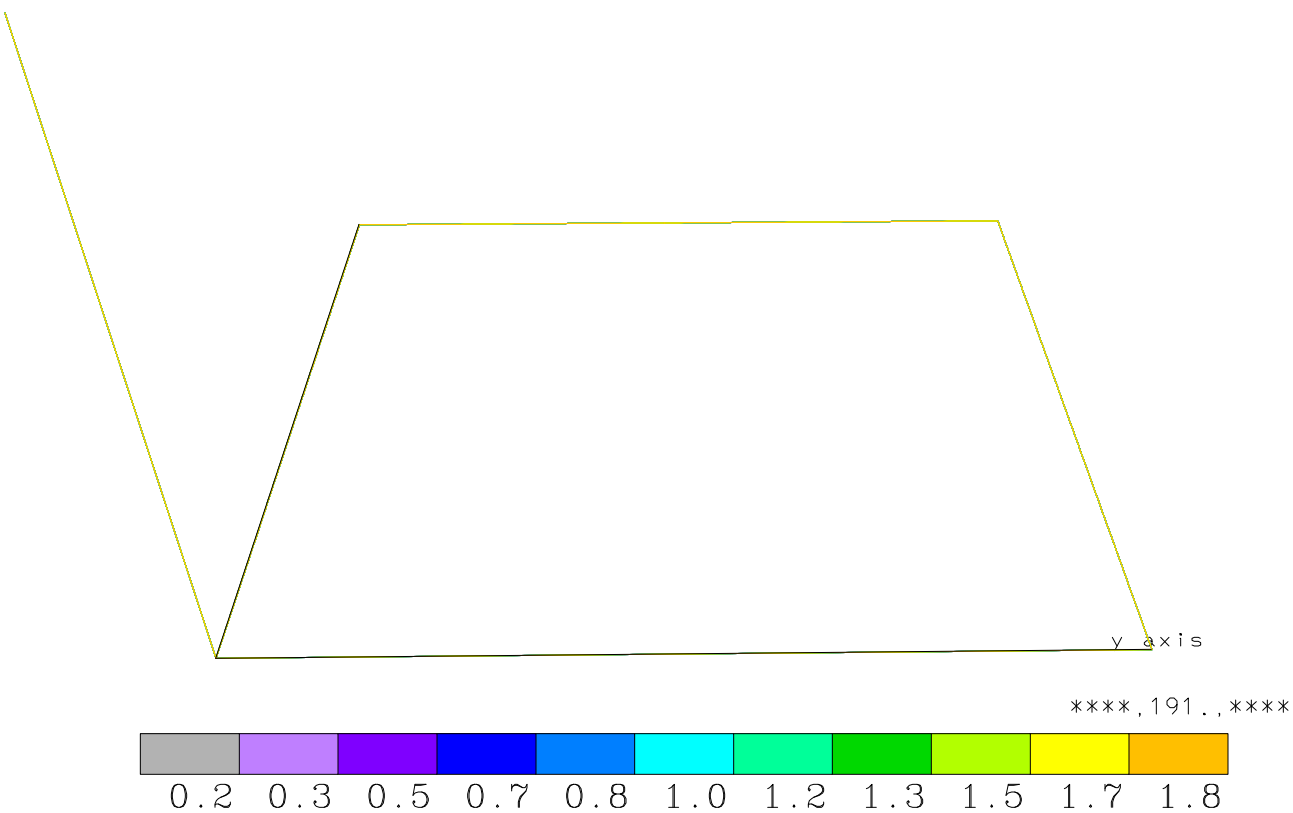
oprespre ut = 0.00

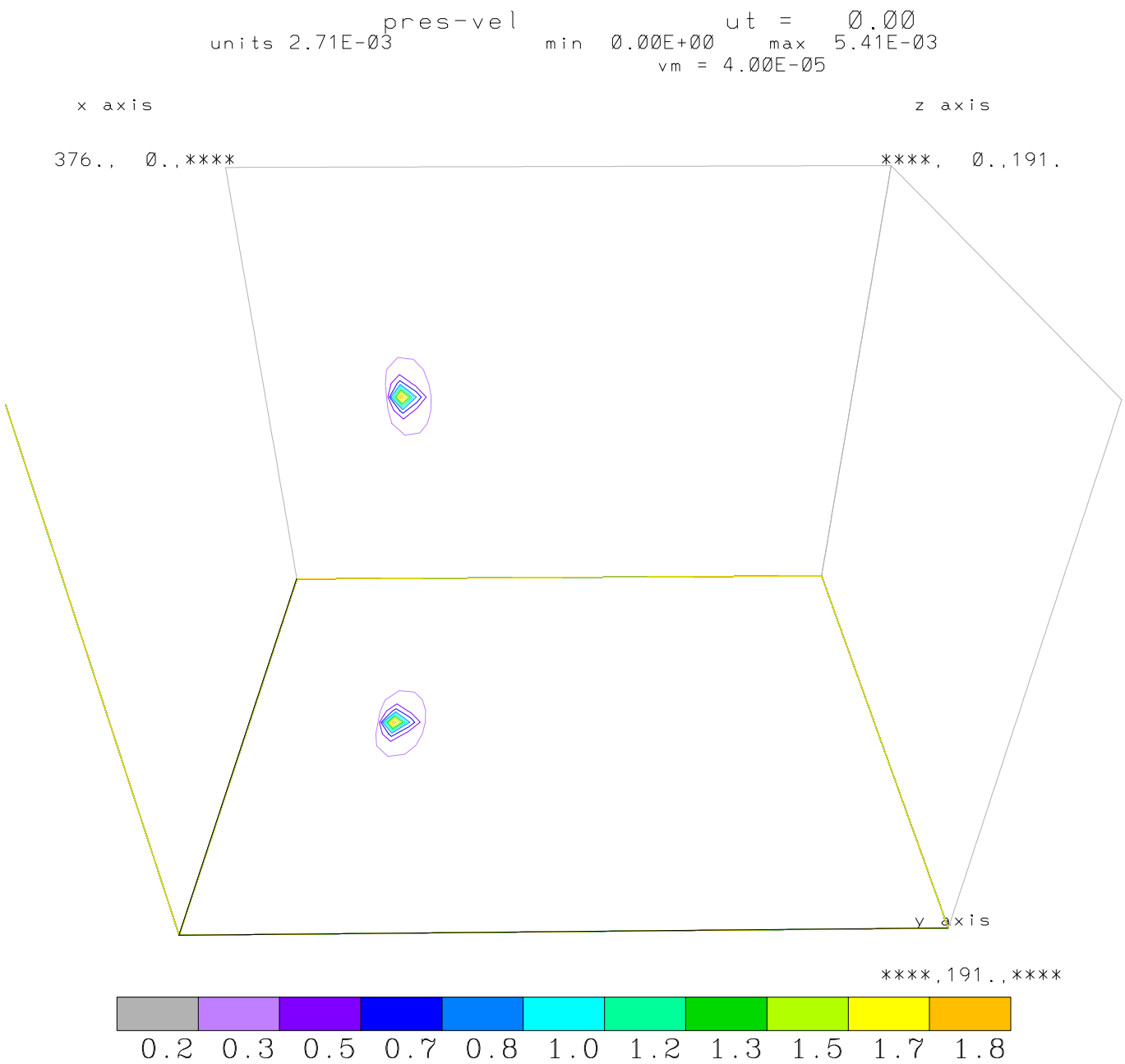
units 1.00E-01 min 0.00E+00 max 1.08E-03

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




pres-vel
ut = 0.00
units 2.71E-03
min 0.00E+00
max 5.41E-03
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

box 4 : dawn dusk ut = 0.00

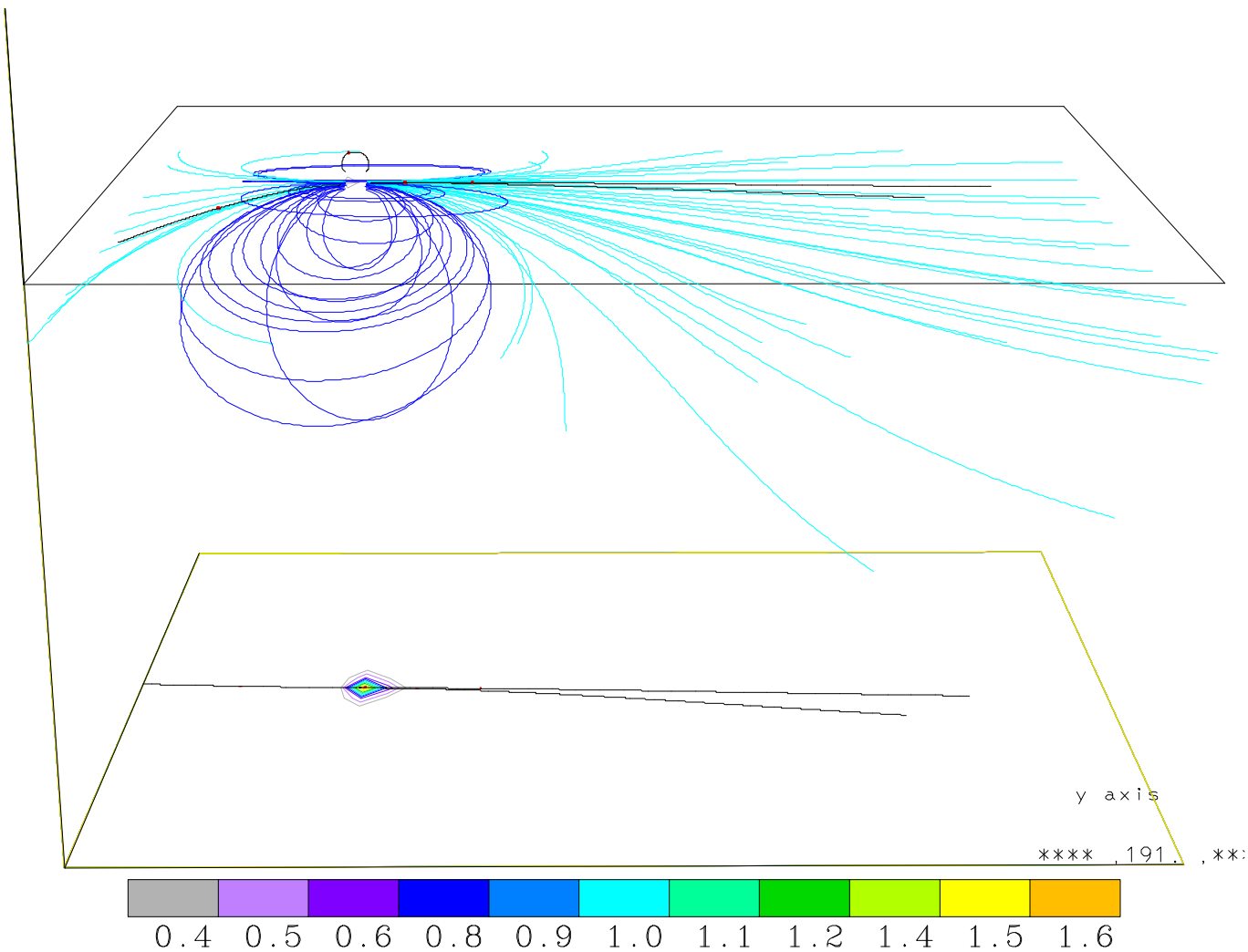
units 3.14E-03 min 8.66E-04 max 5.41E-03

vm = 4.00E-05

craft lat,MLT 1	1.0,	84.4,	11.3
craft lat,MLT 2	1.0,	-64.1,	0.3
craft lat,MLT 2	1.0,	64.2,	0.3
craft lat,MLT 3	1.0,	-87.7,	18.0
craft lat,MLT 4	1.0,	-89.2,	18.0

z axis

376. ,**** ,191.



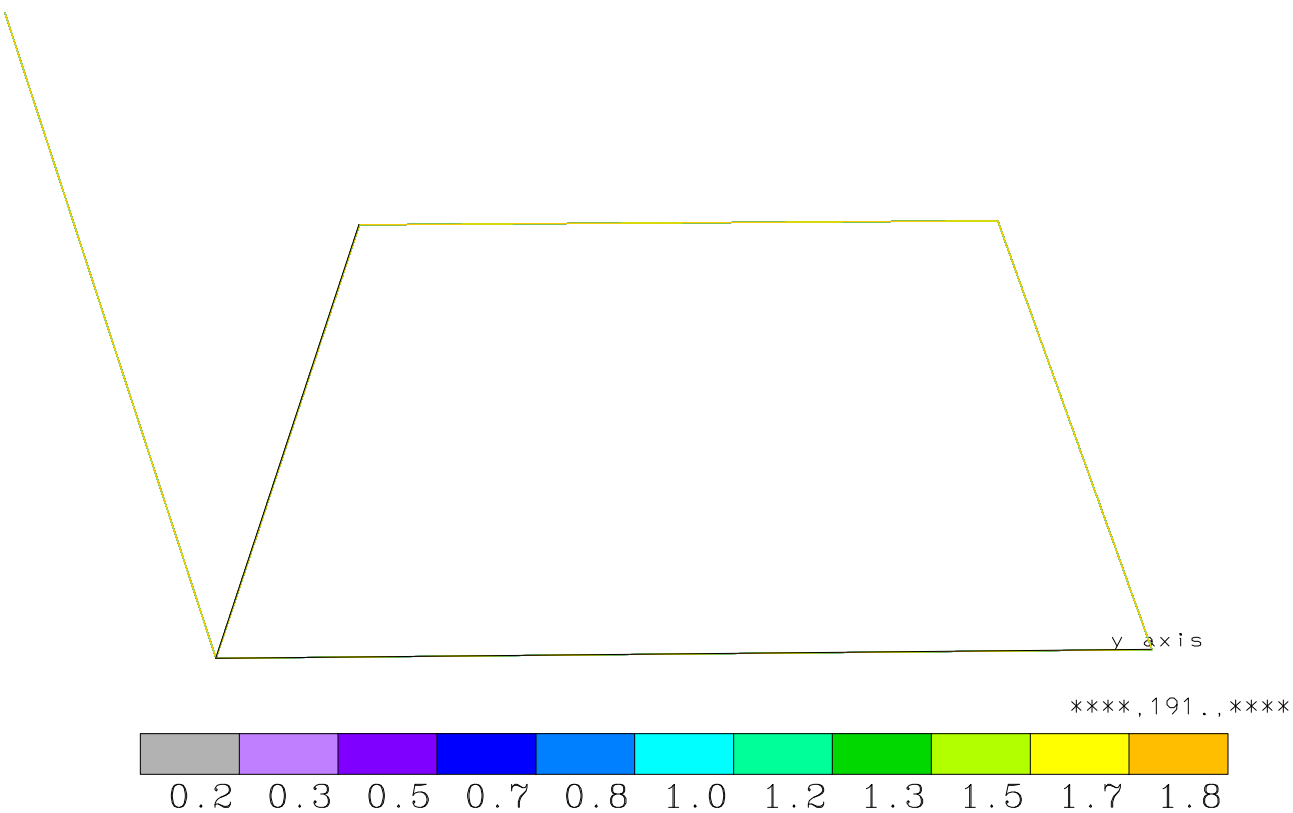
epresq t ut = 0.00

units 2.00E-01 min 0.00E+00 max 2.16E-03

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



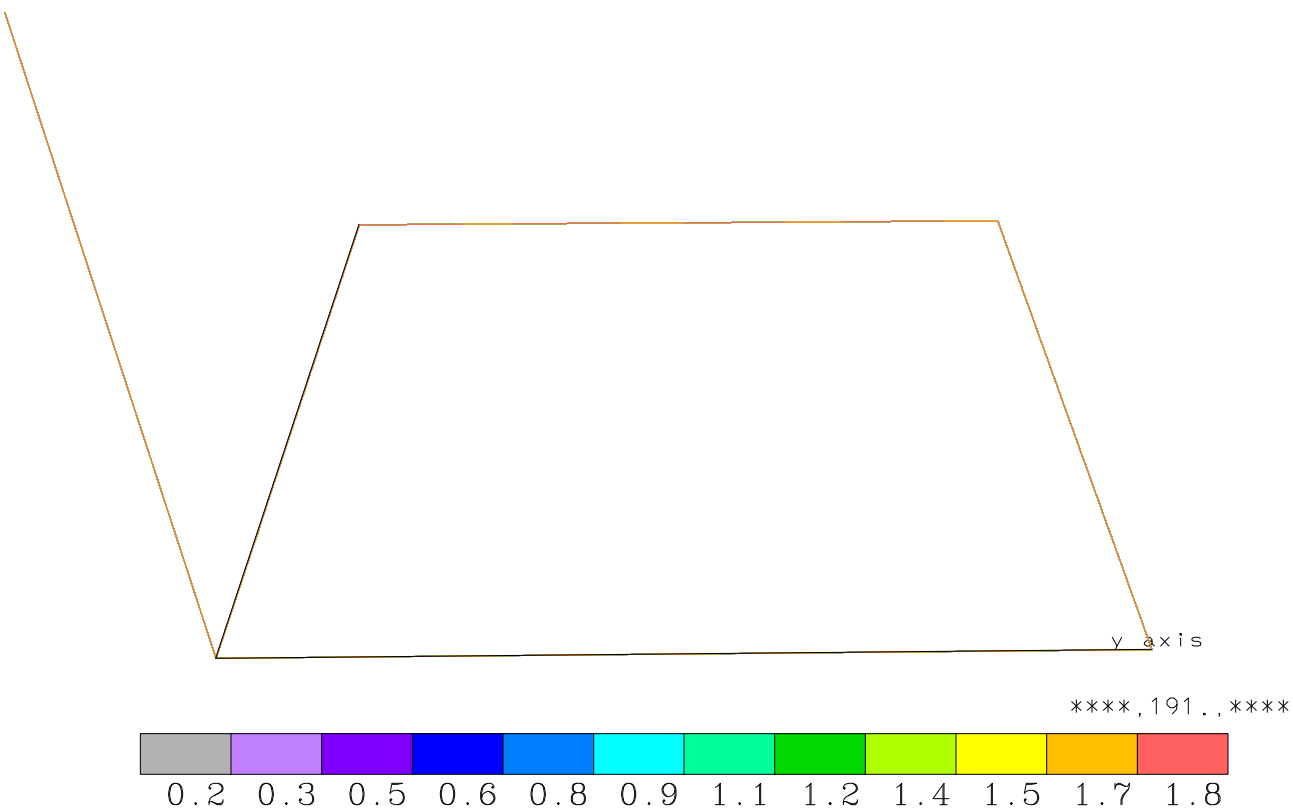
q temph ut = 0.00

units 2.50E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



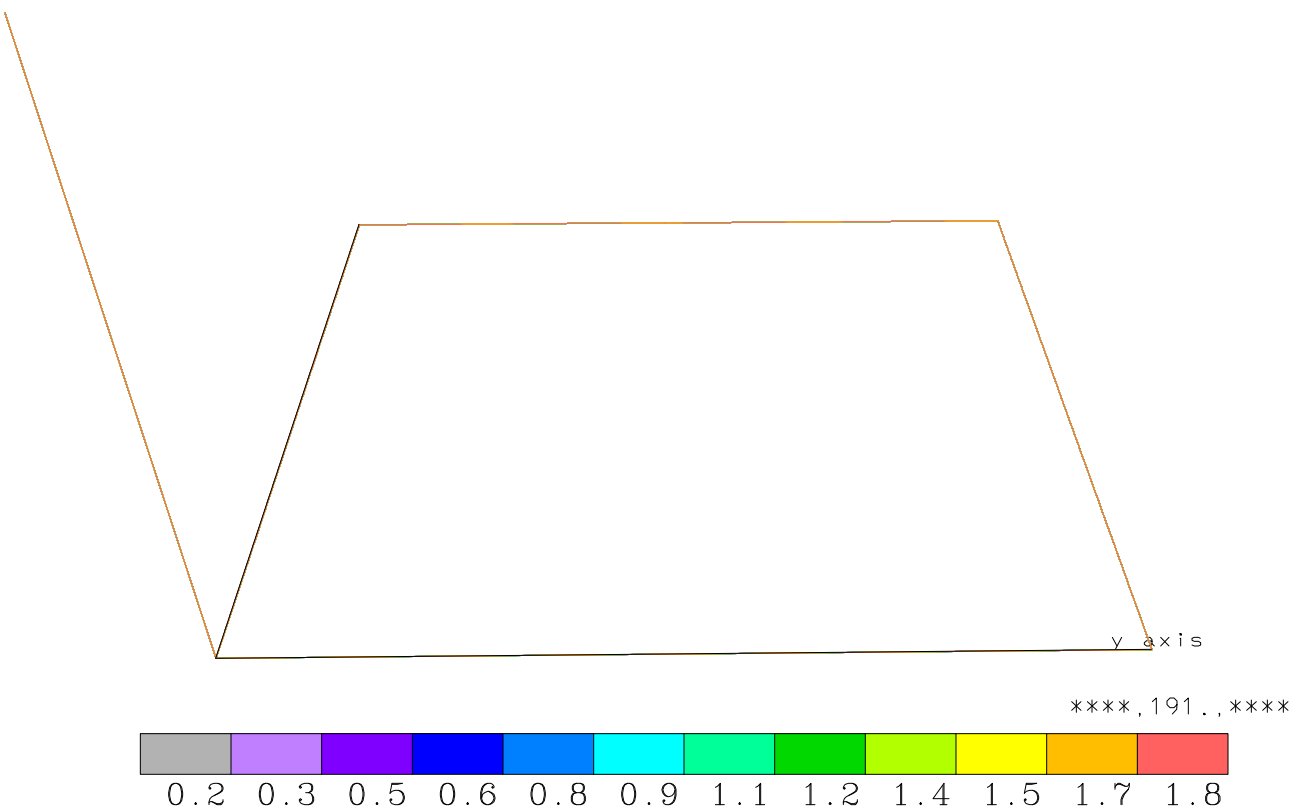
h tempo ut = 0.00

units 2.50E-01 min 0.00E+00 max 1.55E-02

vm = 4.00E-05

x axis z axis

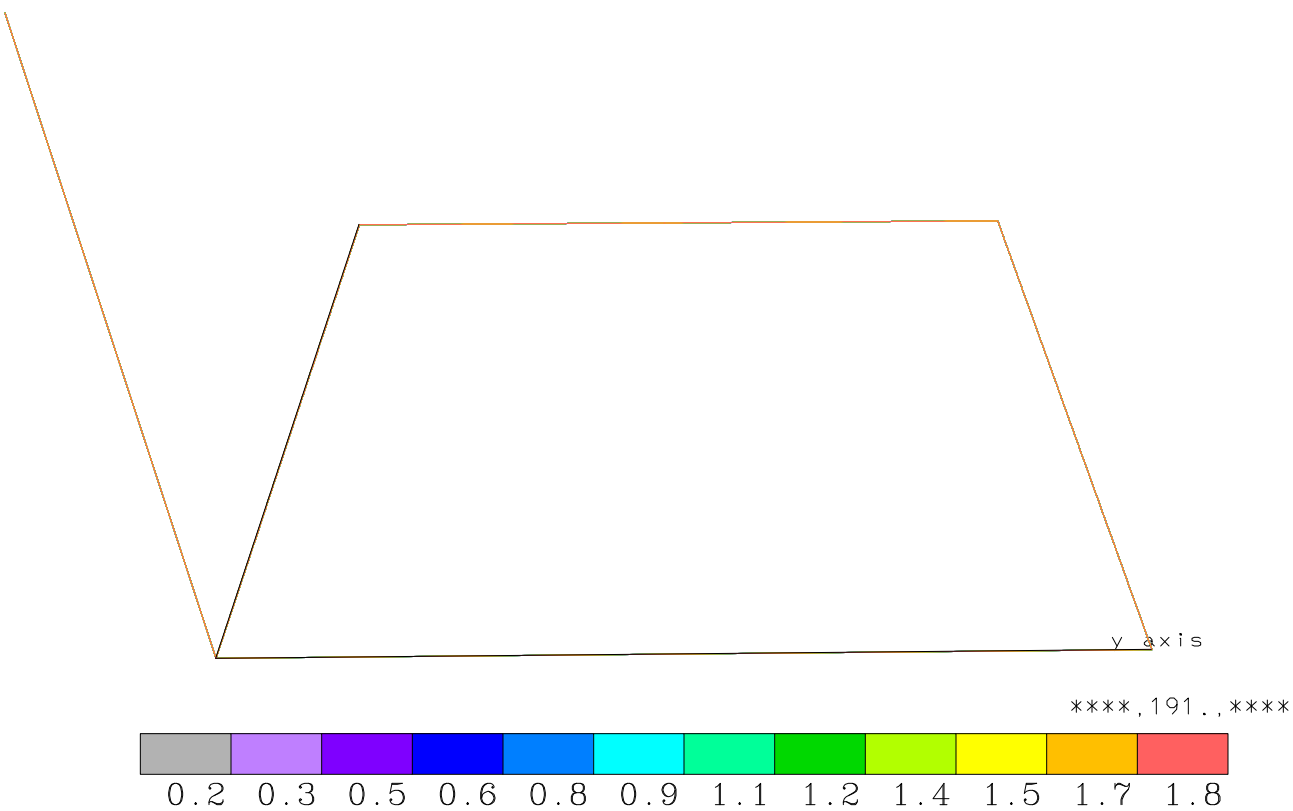
376., 0.,**** ****, 0.,191.



o tempe ut = 0.00
units 2.50E-01 min 0.00E+00 max 2.46E-02
vm = 4.00E-05

x axis z axis

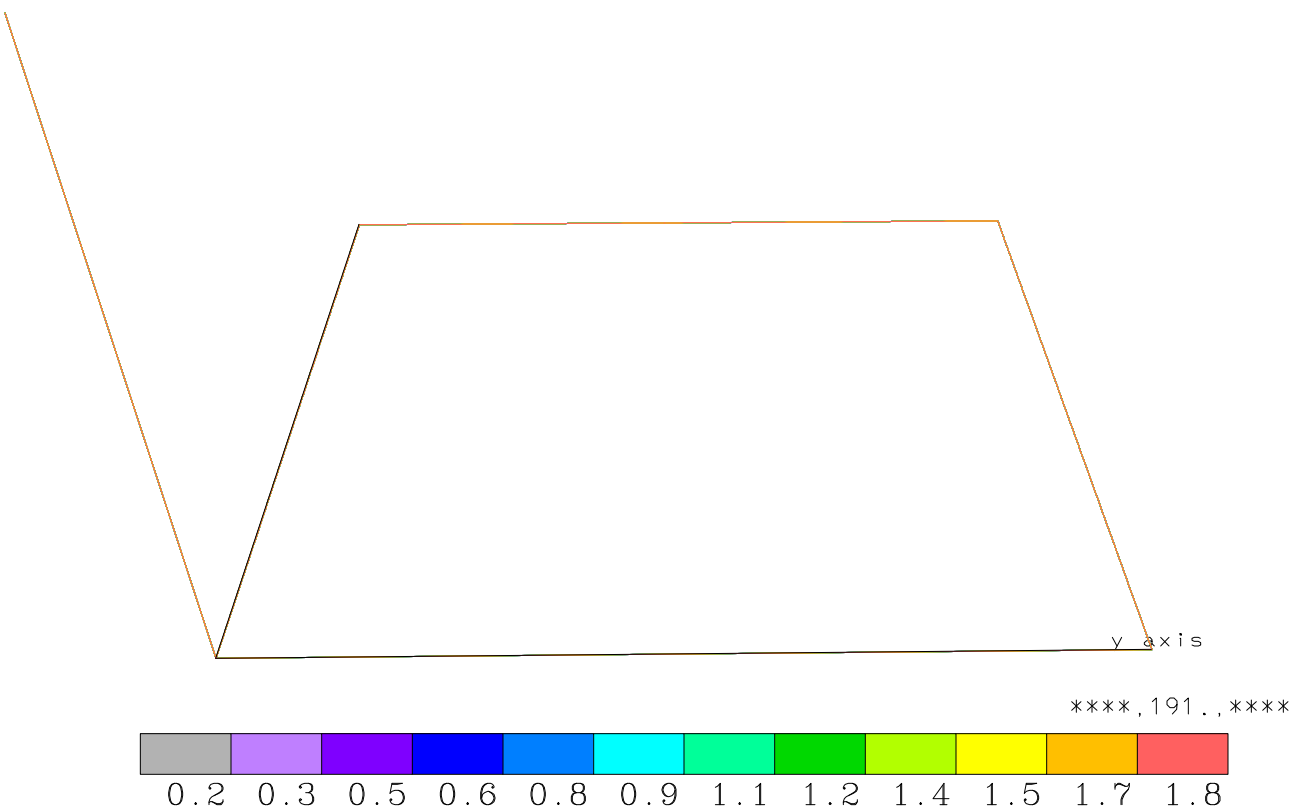
376., 0.,**** ****, 0.,191.



e tempq ut = 0.00
units 1.12E-01 min 0.00E+00 max 4.89E-03
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



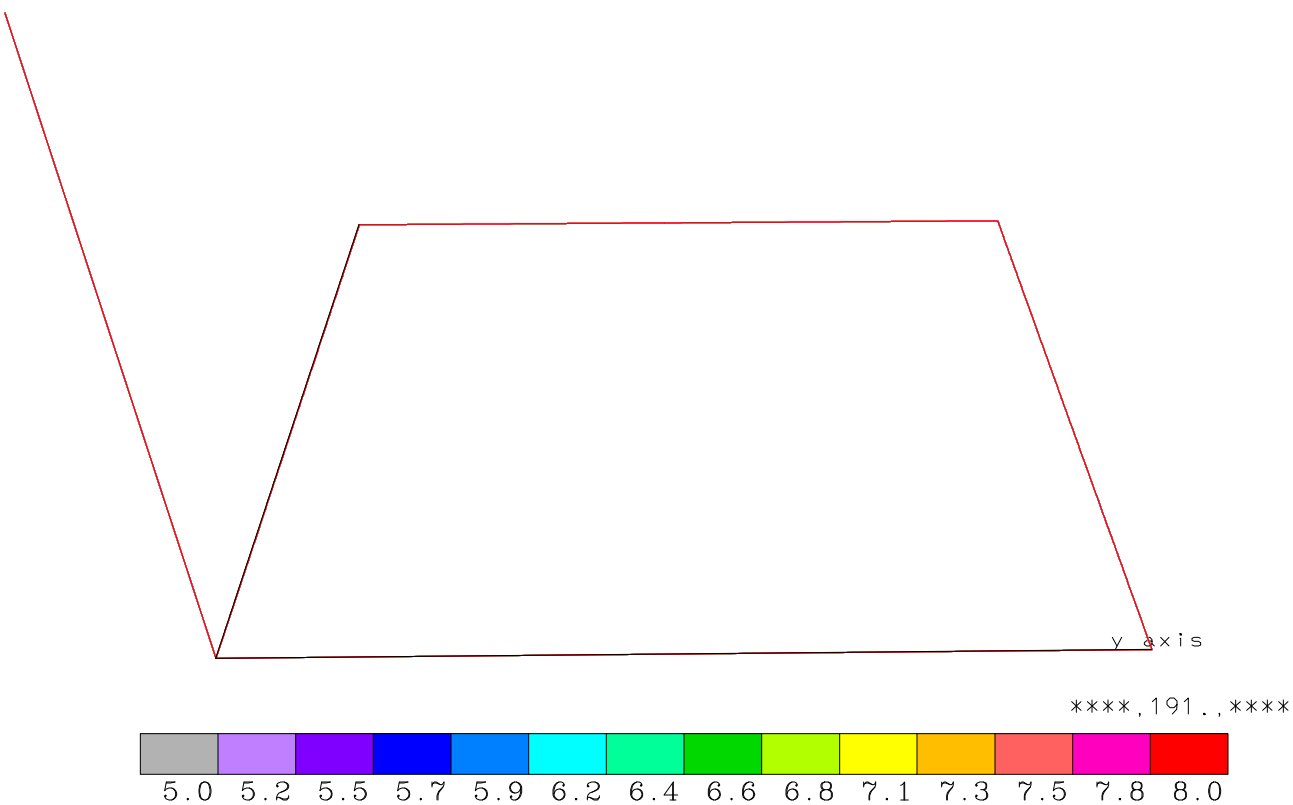
q den vh ut = 0.00

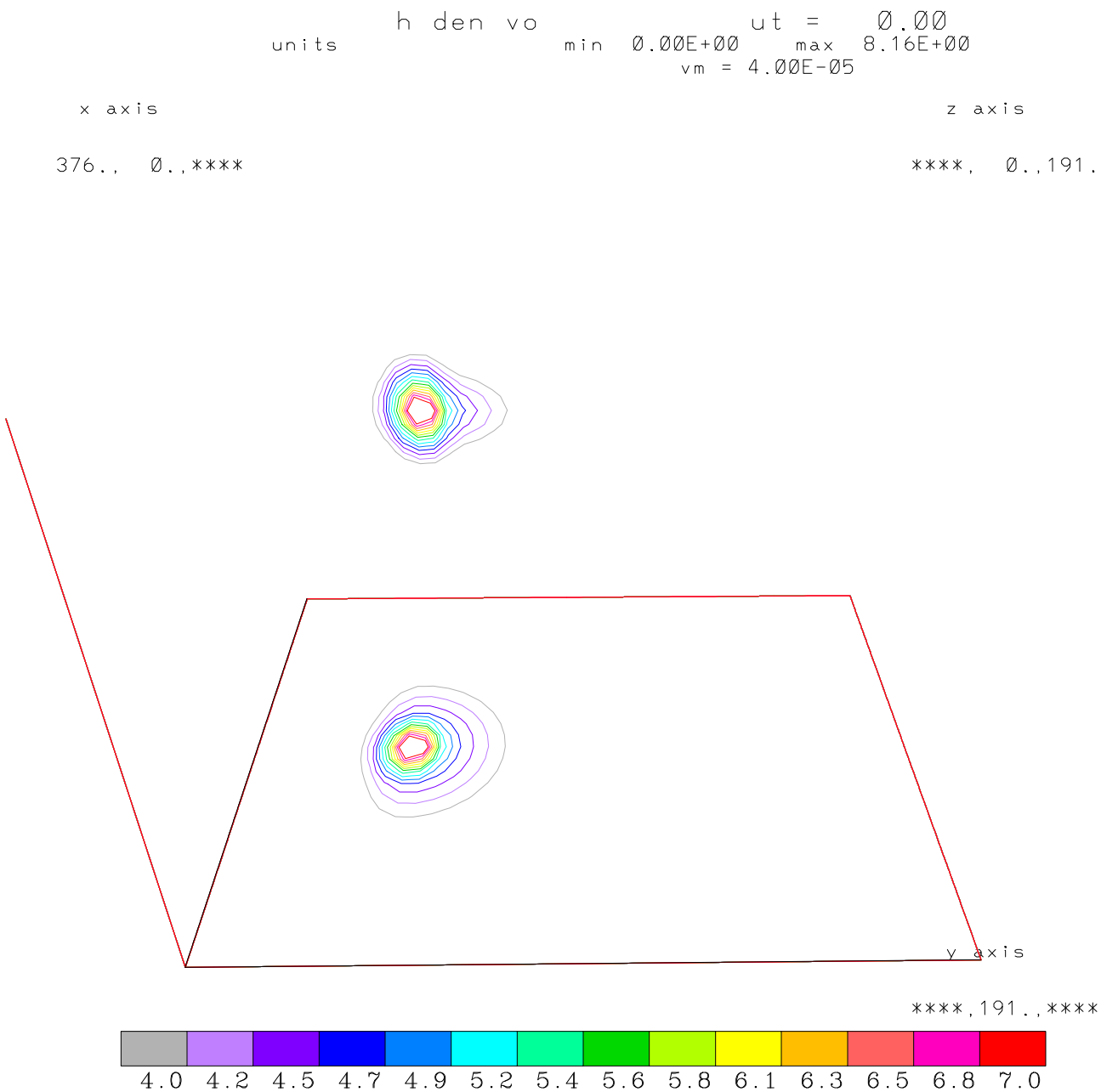
units min 0.00E+00 max 4.00E+00

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




h den vo ut = 0.00
units min 0.00E+00 max 8.16E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

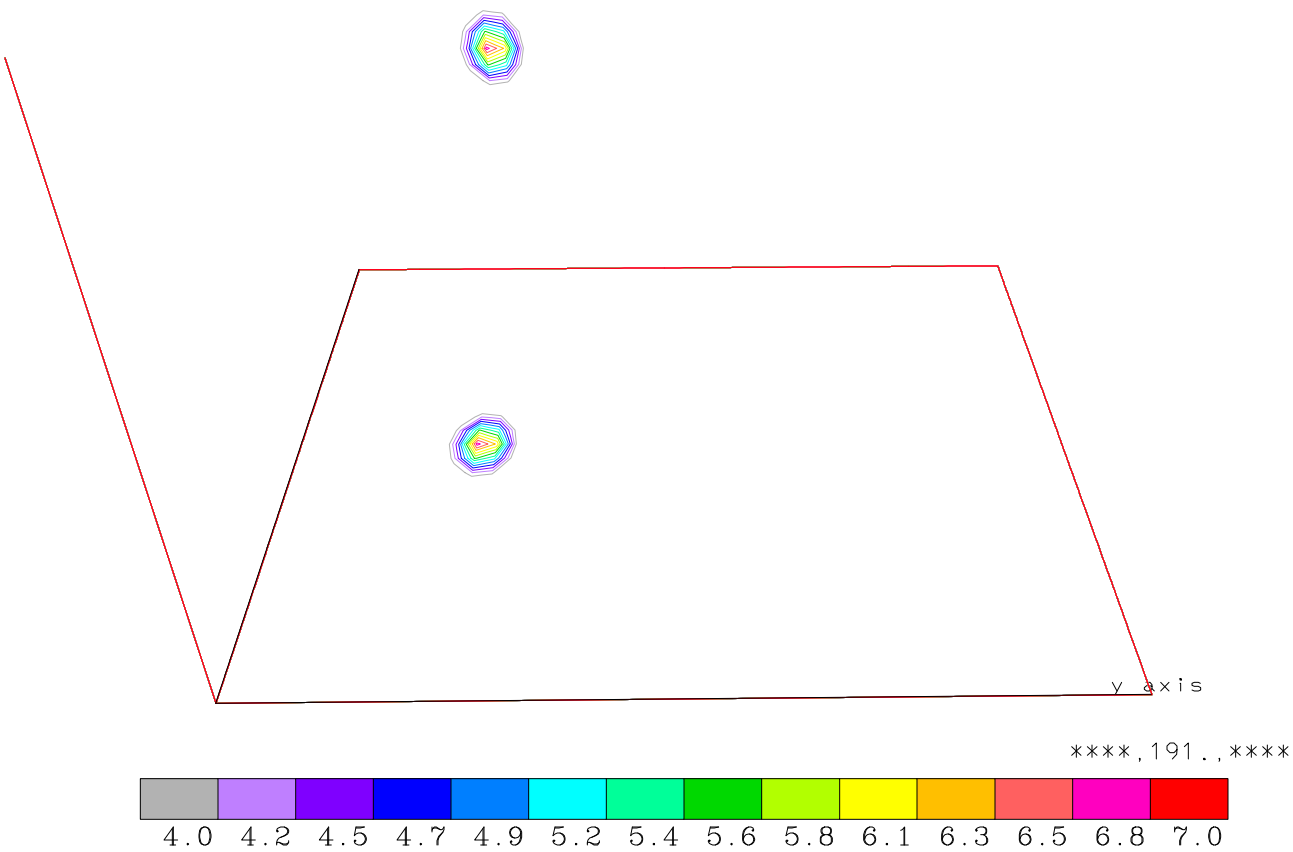
o den vt ut = 0.00

units min 0.00E+00 max 6.86E+00

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



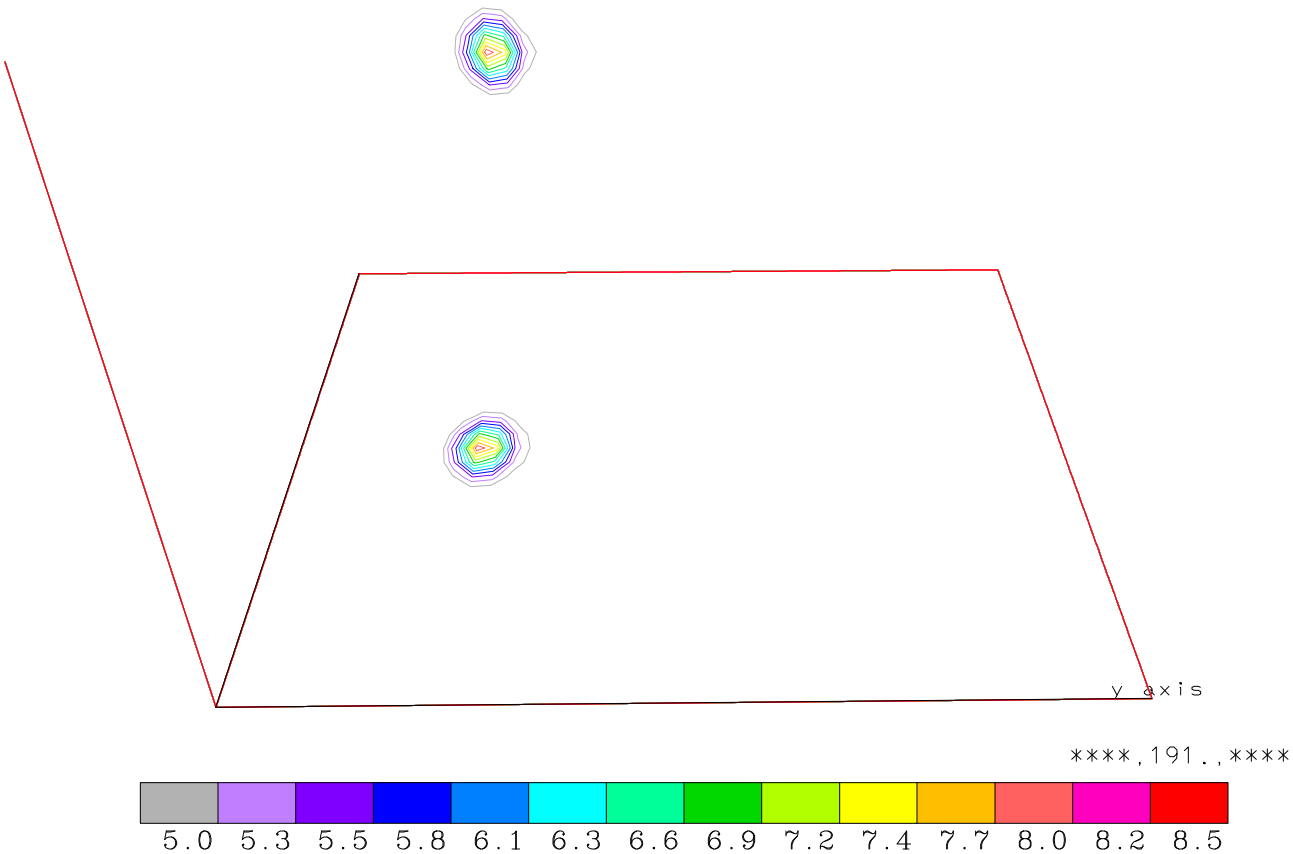
tden vbi ut = 0.00

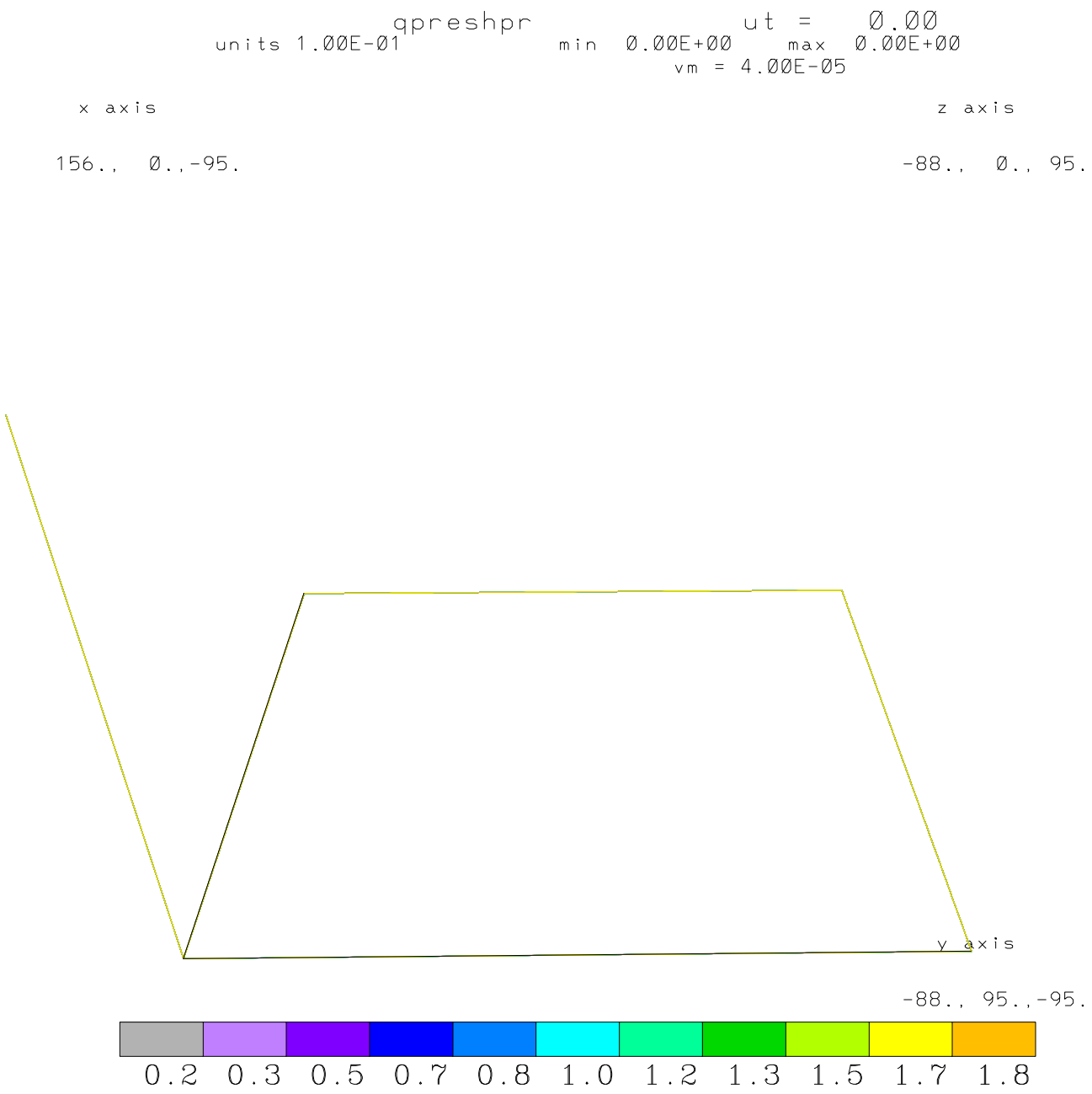
units min 0.00E+00 max 8.19E+00

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




qpreshpr
ut = 0.00
units 1.00E-01
min 0.00E+00
max 0.00E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

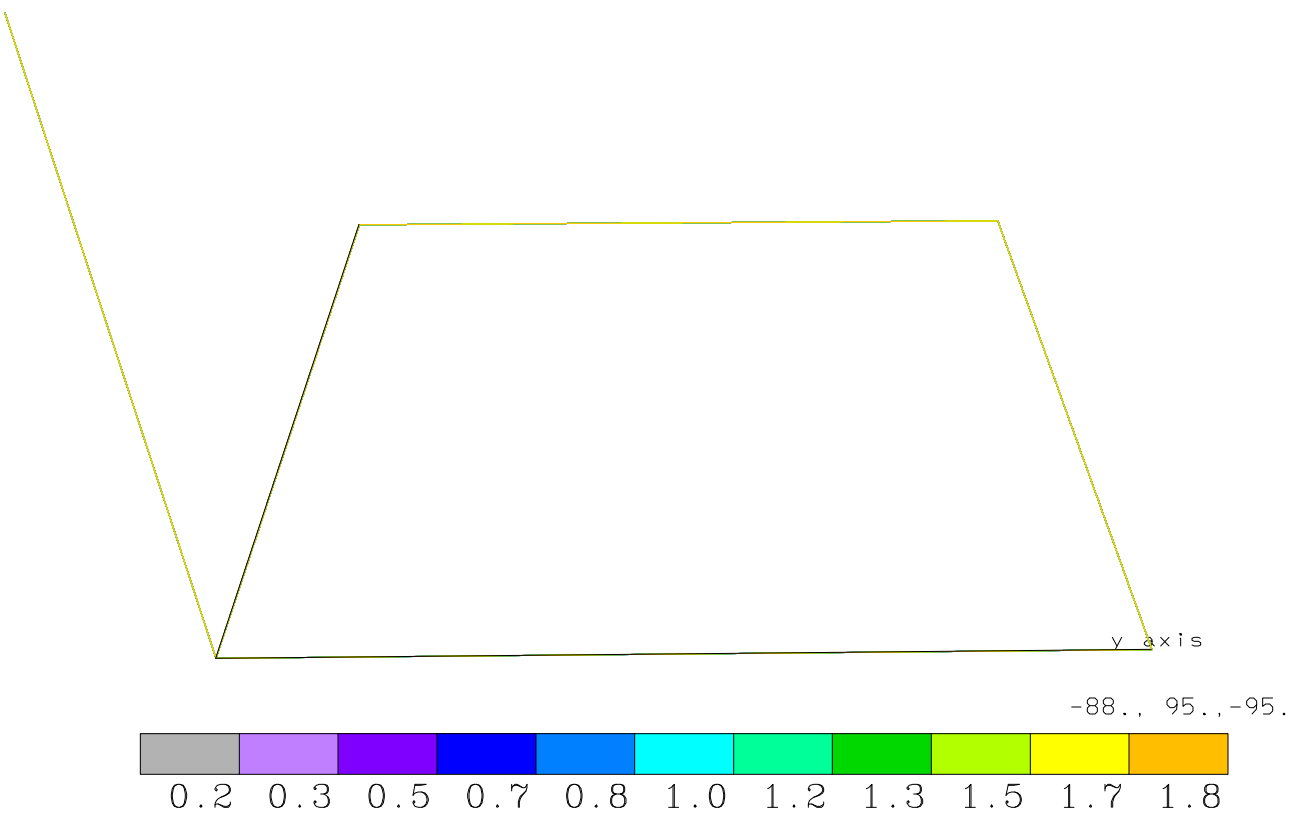
hpresopr ut = 0.00

units 1.00E-01 min 0.00E+00 max 7.68E-03

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



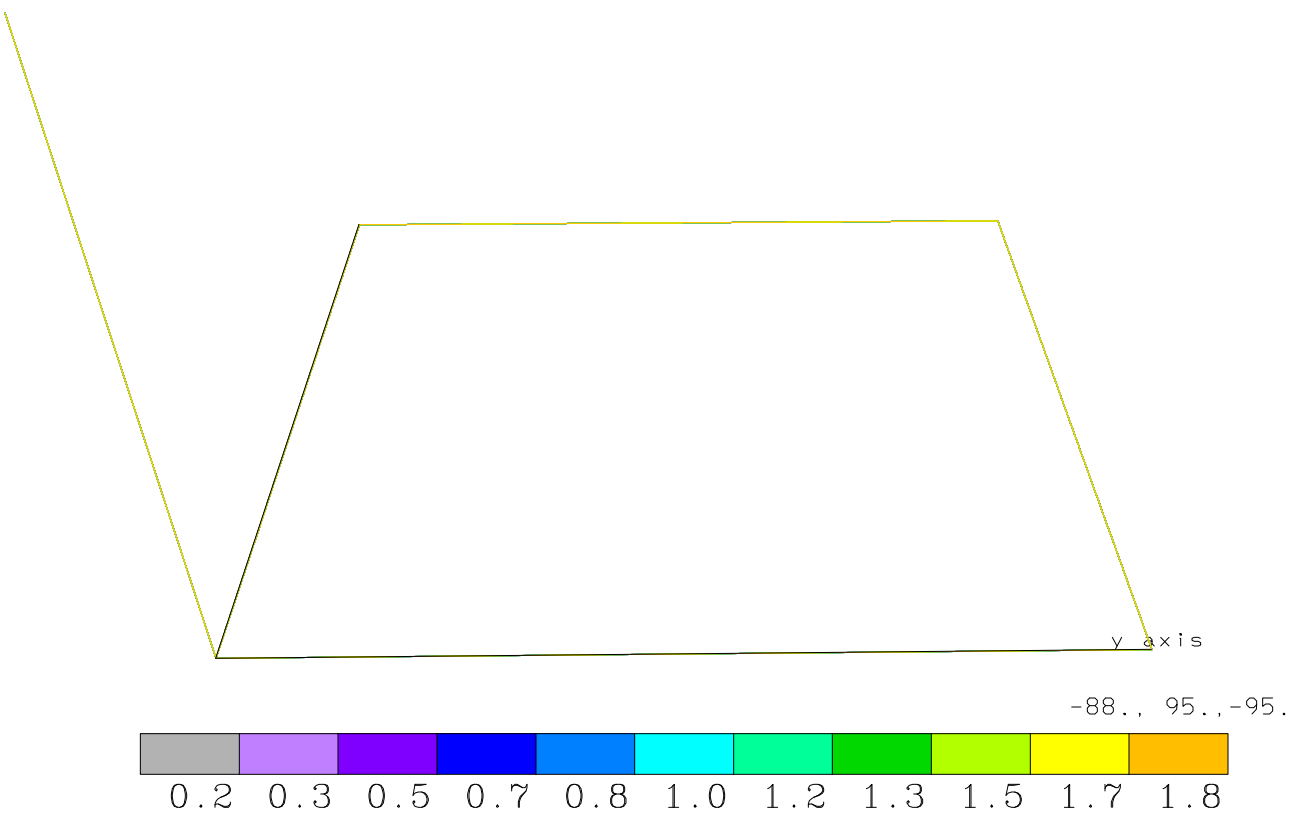
oprespre ut = 0.00

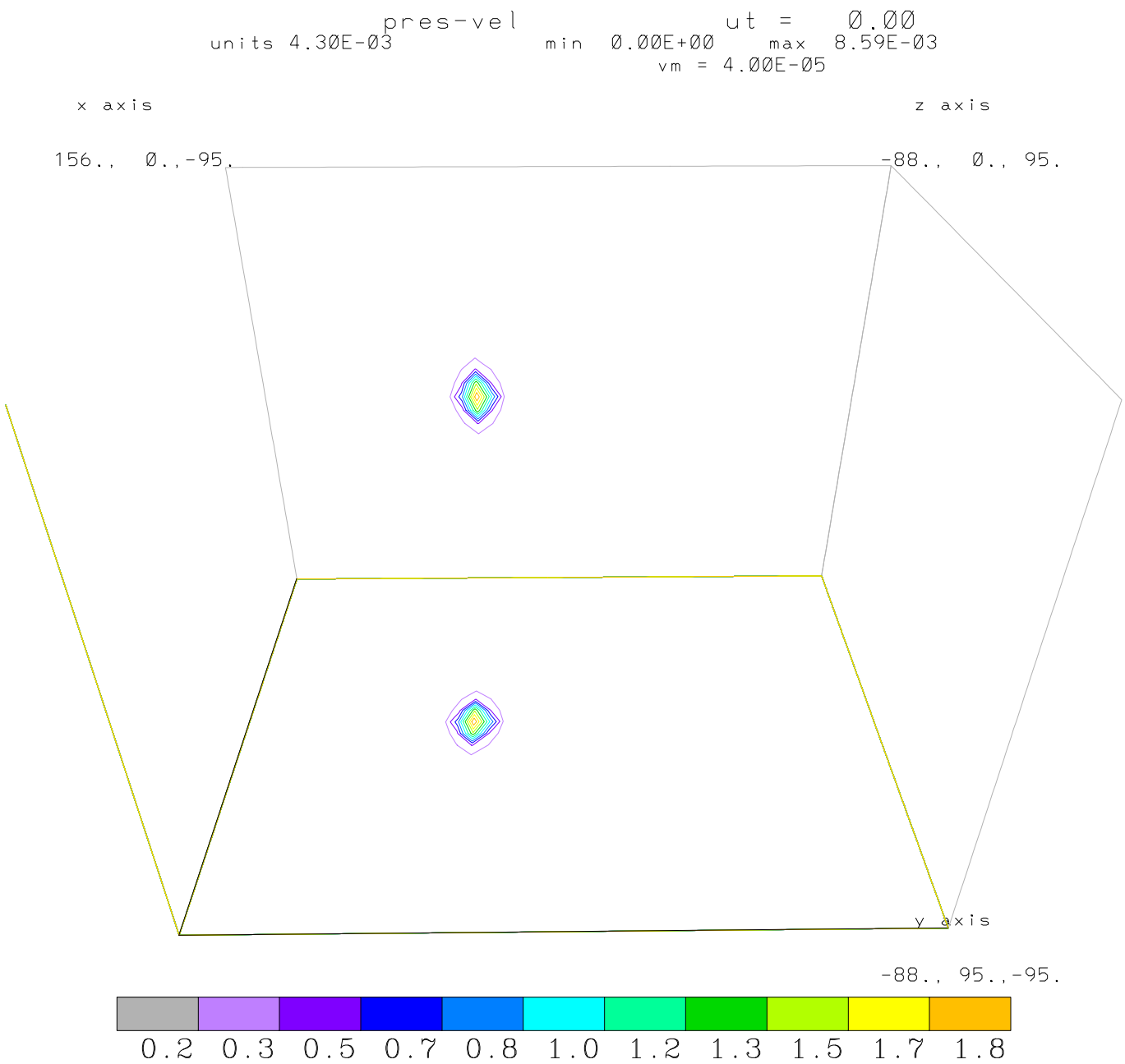
units 1.00E-01 min 0.00E+00 max 1.72E-03

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.




pres-vel
ut = 0.00
units 4.30E-03
min 0.00E+00
max 8.59E-03
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8

box 3 : dawn dusk ut = 0.00

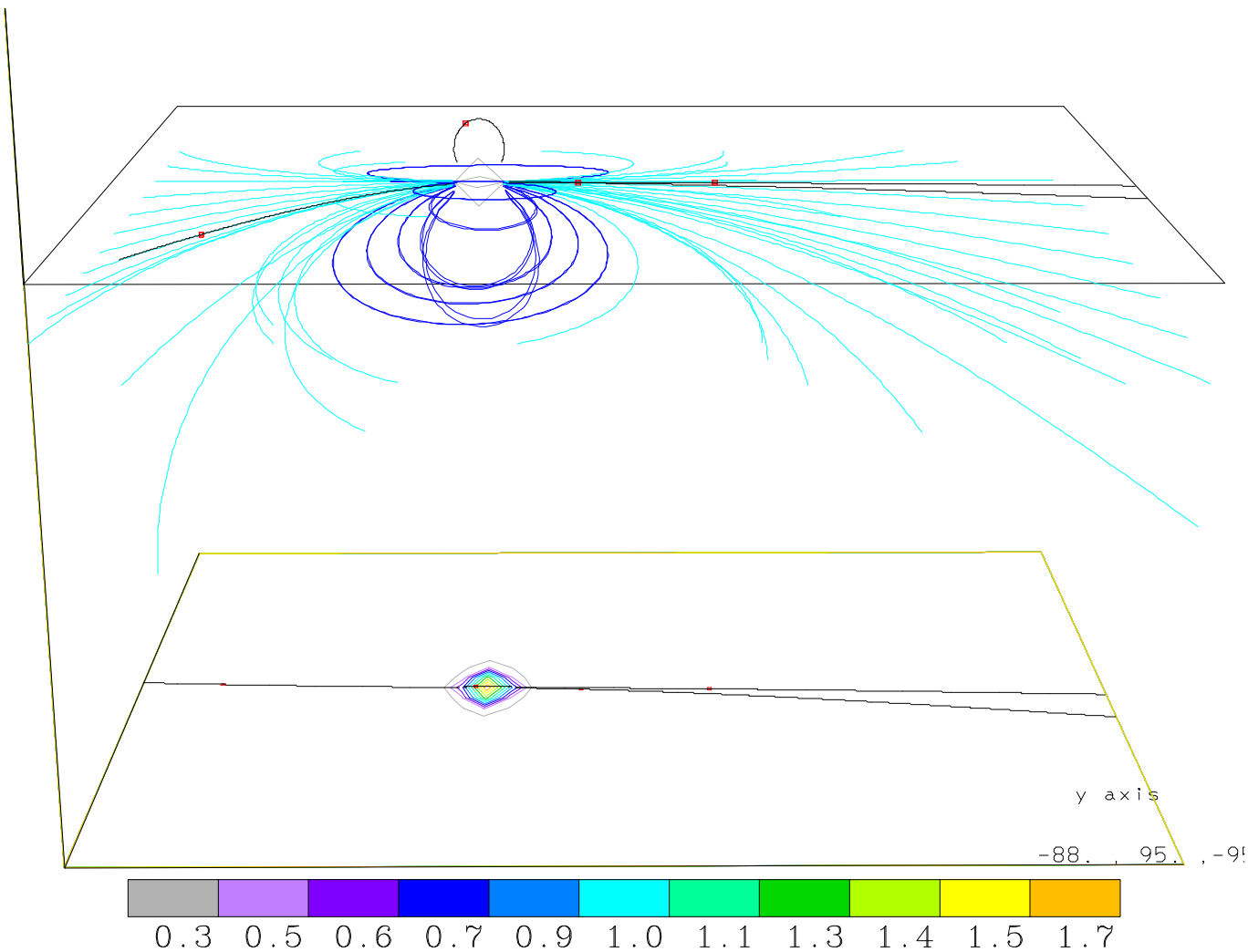
units 4.73E-03 min 8.66E-04 max 8.59E-03

vm = 4.00E-05

craft lat,MLT 1	1.0,	87.4,	11.3
craft lat,MLT 2	1.0,	-66.2,	0.2
craft lat,MLT 2	1.0,	66.2,	0.2
craft lat,MLT 3	1.0,	-88.9,	18.0
craft lat,MLT 4	1.0,	-89.7,	18.0

z axis

156. ,-95. , 95.



0.3 0.5 0.6 0.7 0.9 1.0 1.1 1.3 1.4 1.5 1.7

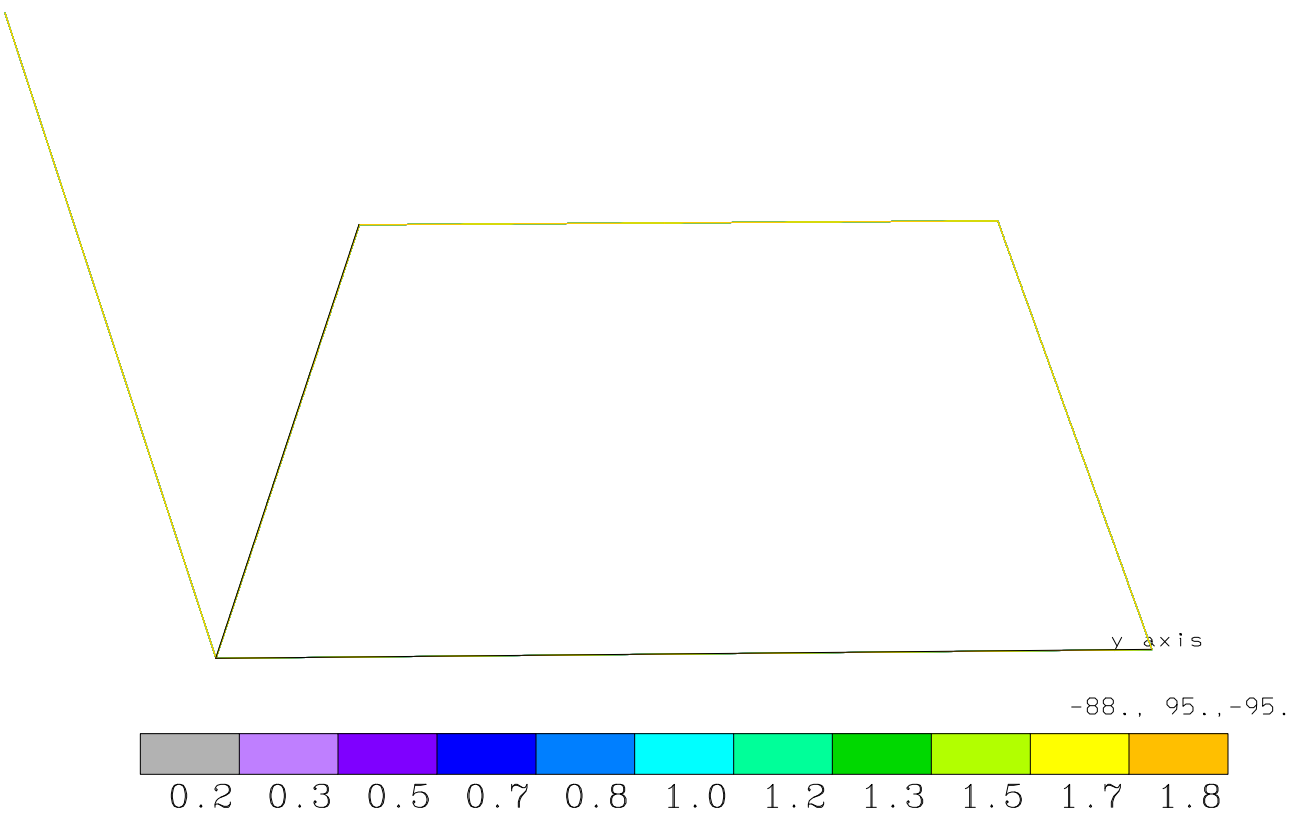
epresq t ut = 0.00

units 2.00E-01 min 0.00E+00 max 3.44E-03

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



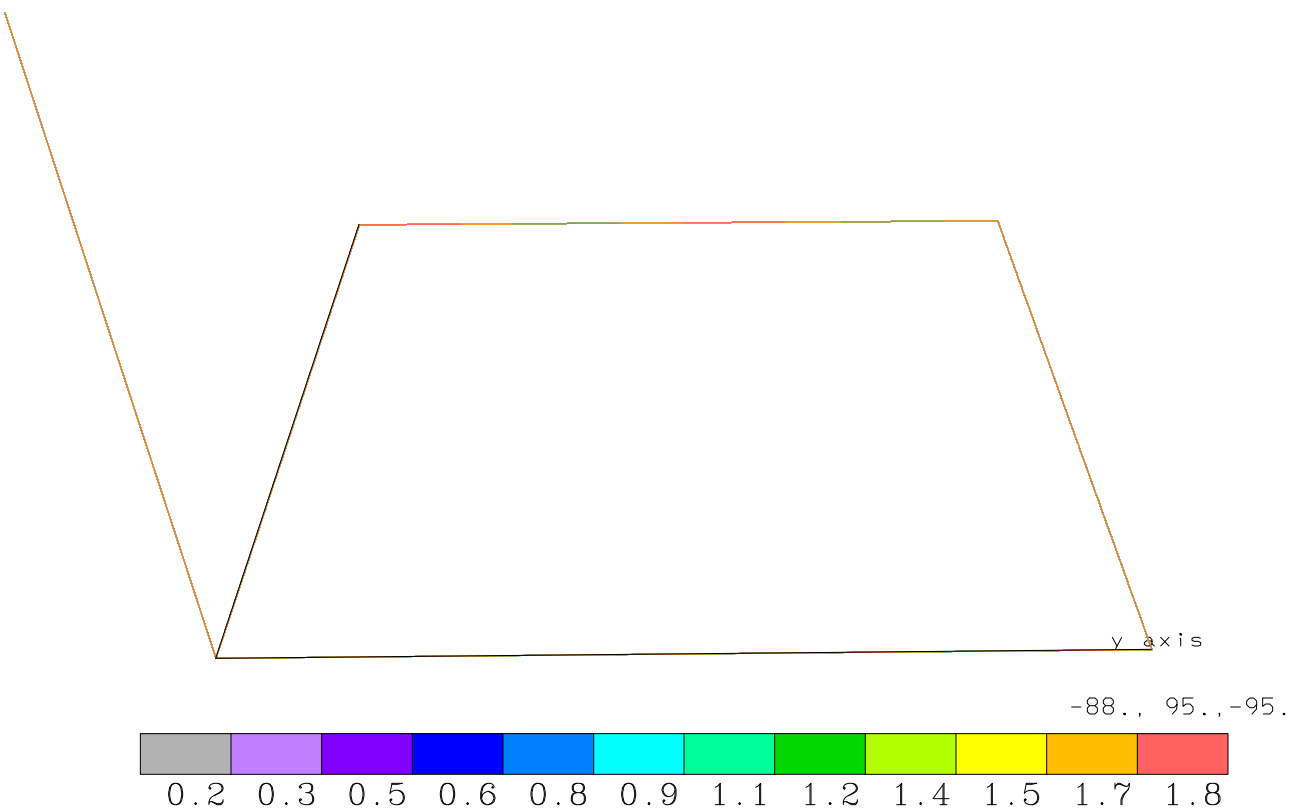
q temph ut = 0.00

units 2.50E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



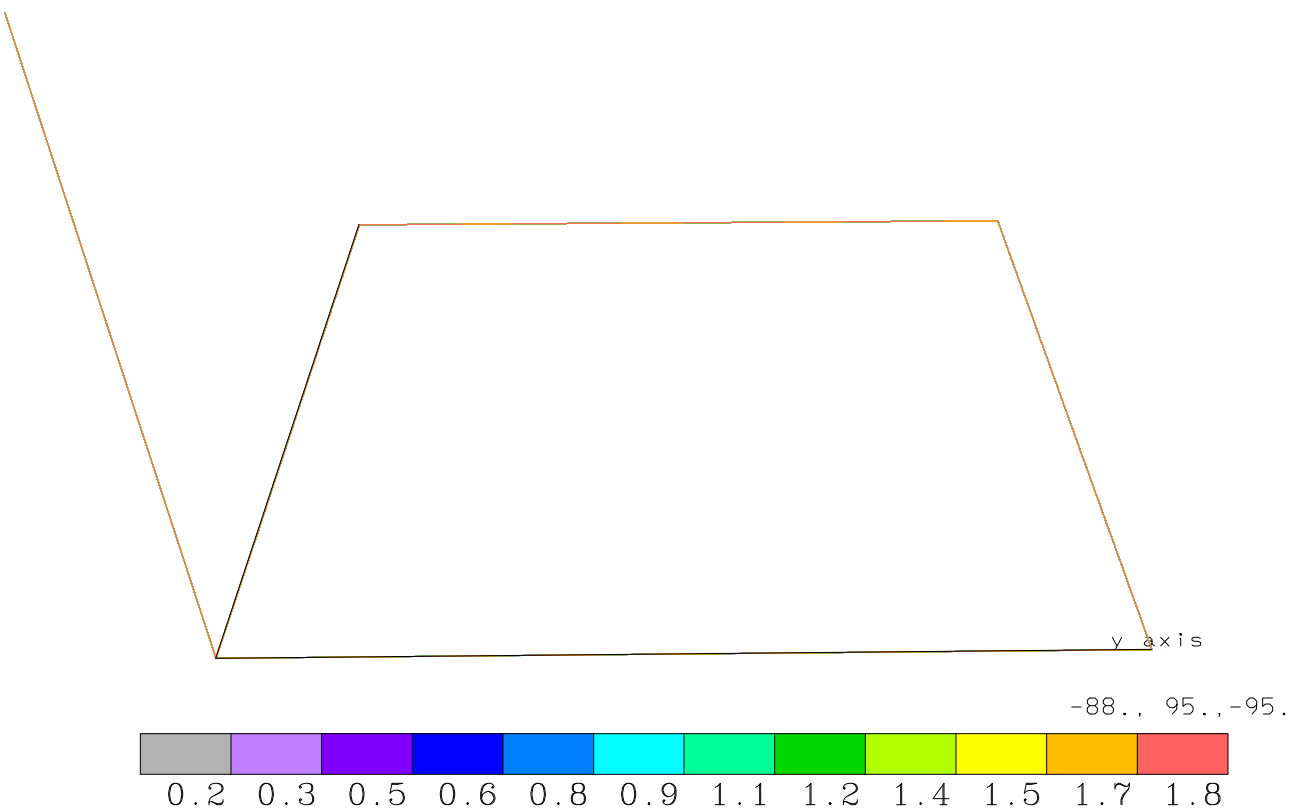
h tempo ut = 0.00

units 2.50E-01 min 0.00E+00 max 1.56E-02

vm = 4.00E-05

x axis z axis

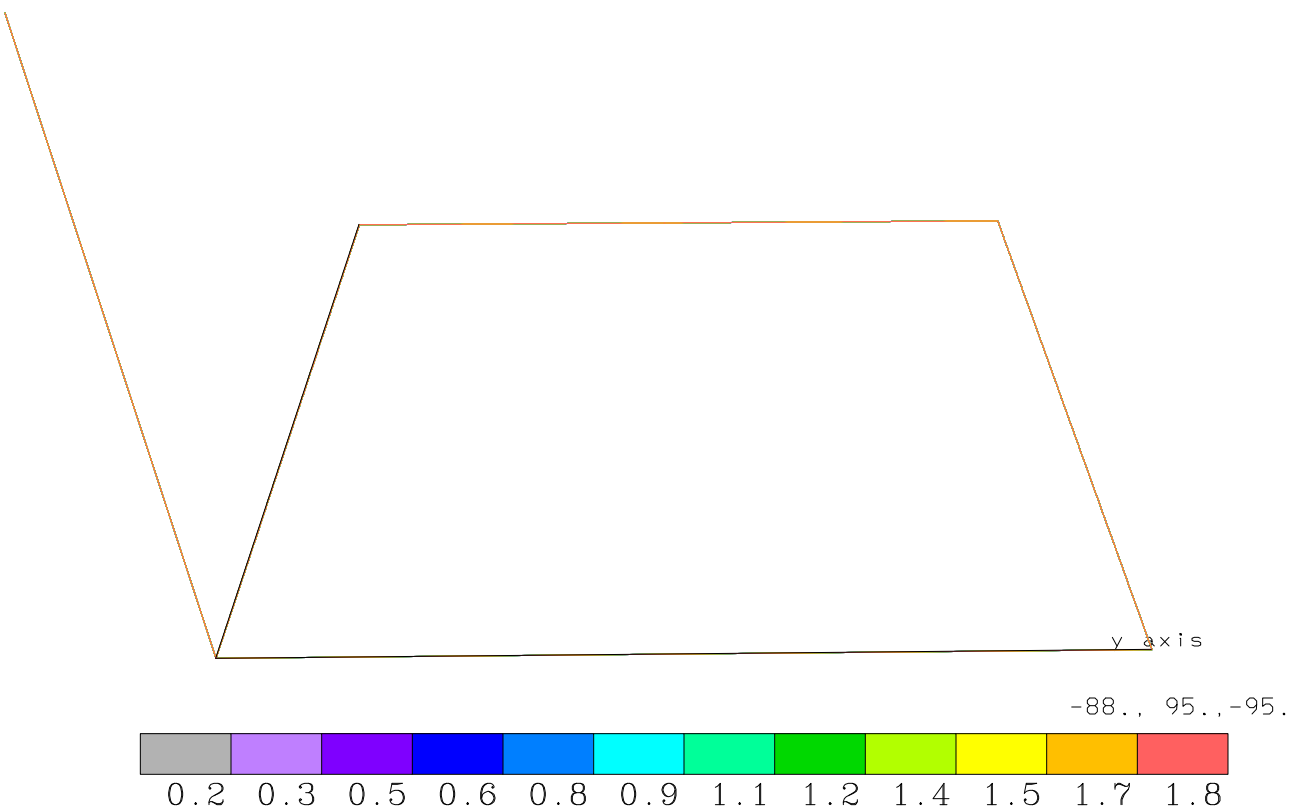
156., 0.,-95. -88., 0., 95.



o tempe ut = 0.00
units 2.50E-01 min 0.00E+00 max 2.46E-02
vm = 4.00E-05

x axis z axis

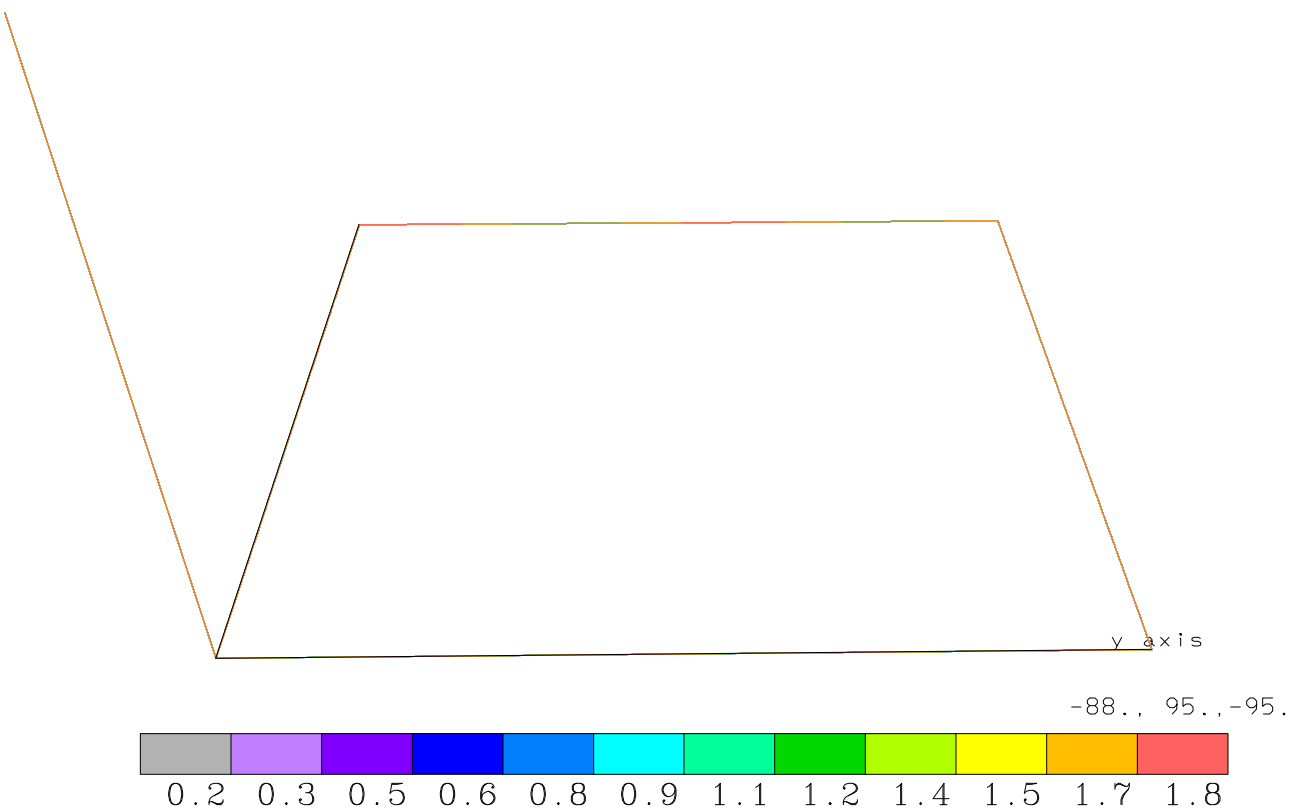
156., 0.,-95. -88., 0., 95.



e tempq ut = 0.00
units 1.12E-01 min 0.00E+00 max 4.89E-03
vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



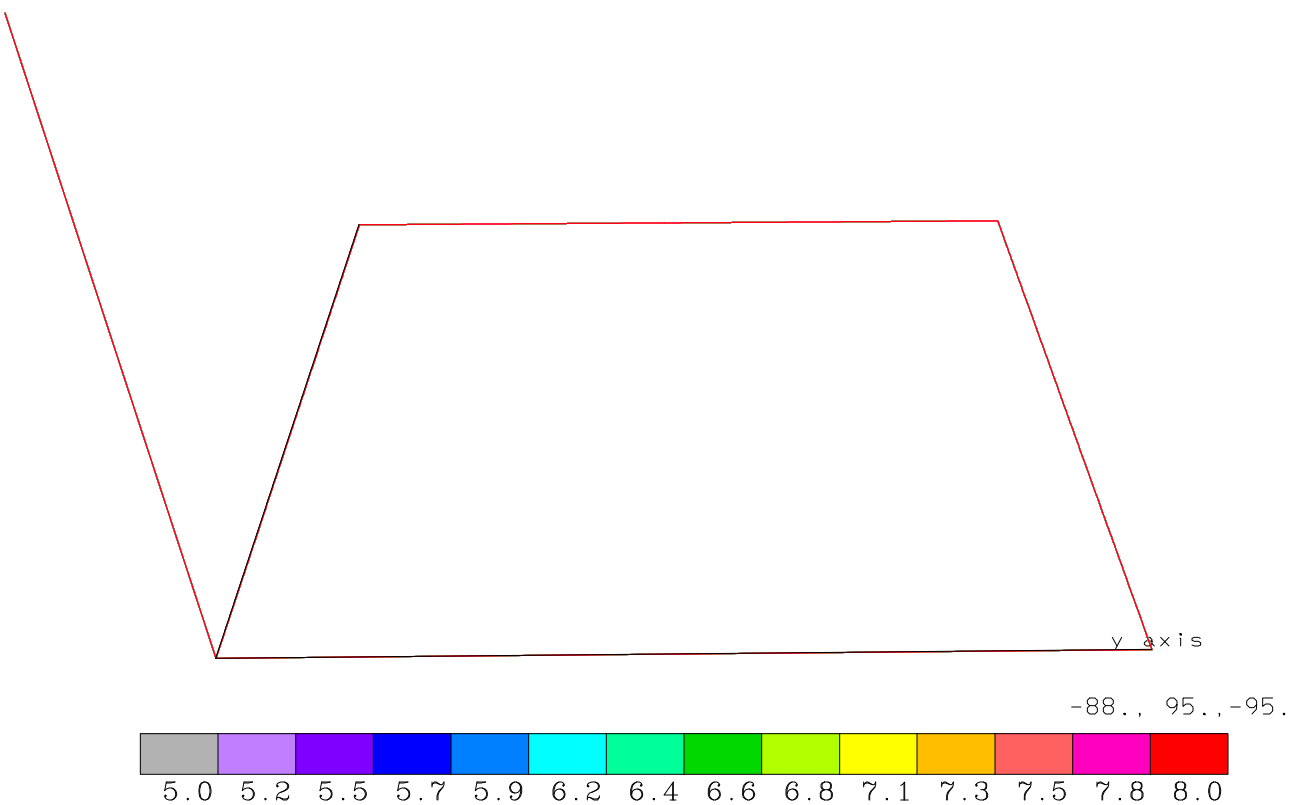
q den vh ut = 0.00

units min 0.00E+00 max 4.00E+00

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



h den vo ut = 0.00

units min 0.00E+00 max 8.60E+00

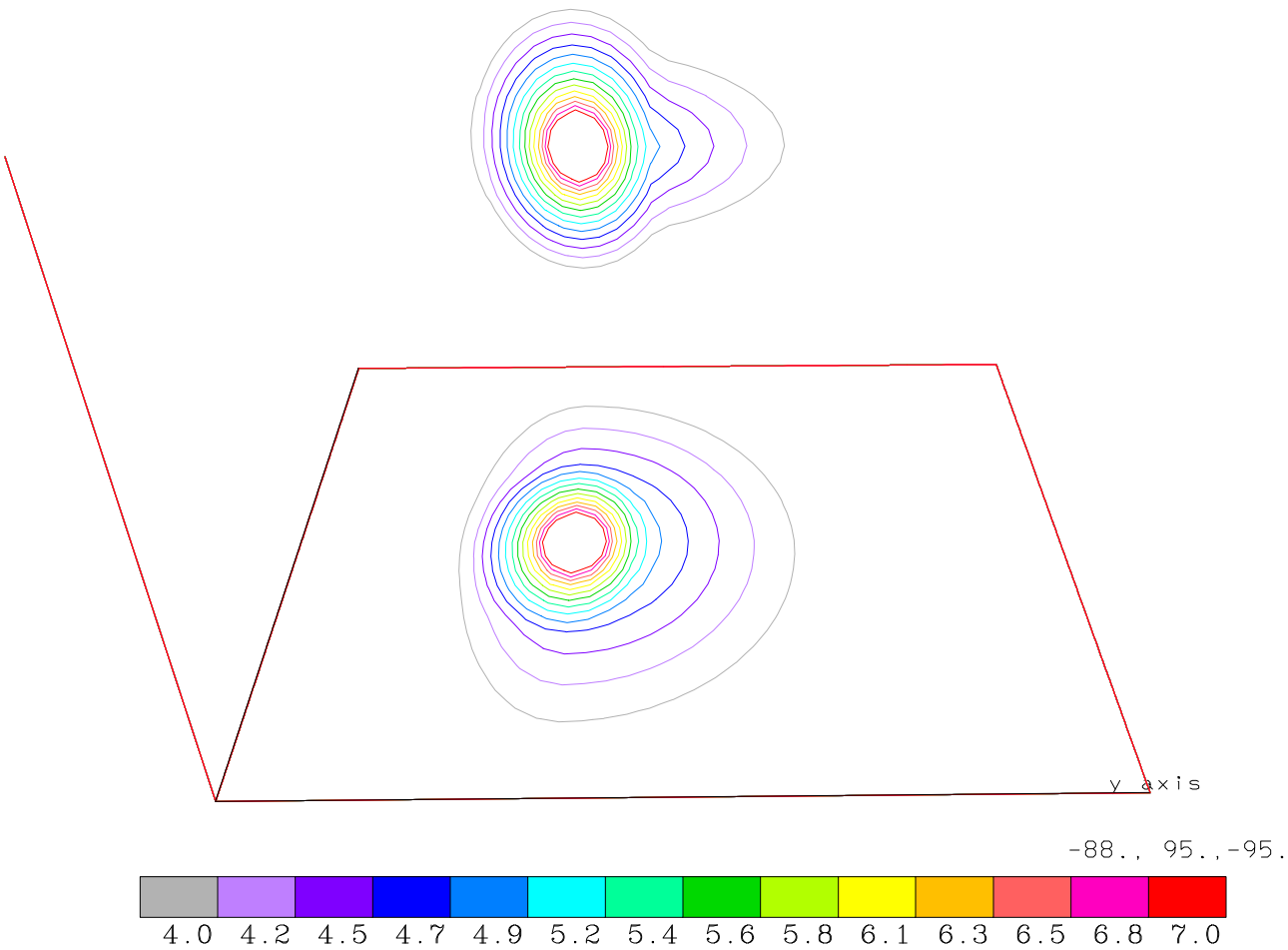
vm = 4.00E-05

x axis

156., 0.,-95.

z axis

-88., 0., 95.



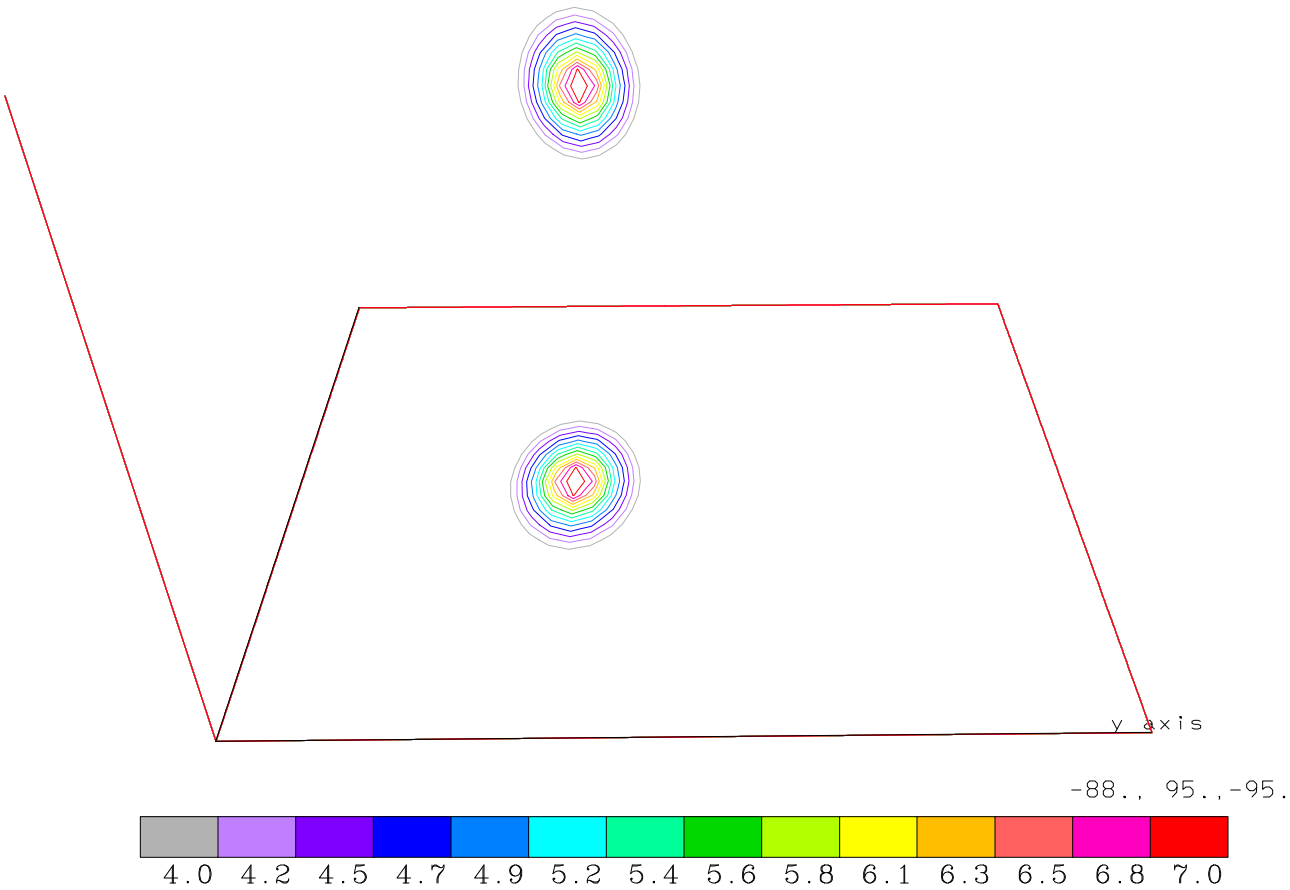
o den vt ut = 0.00

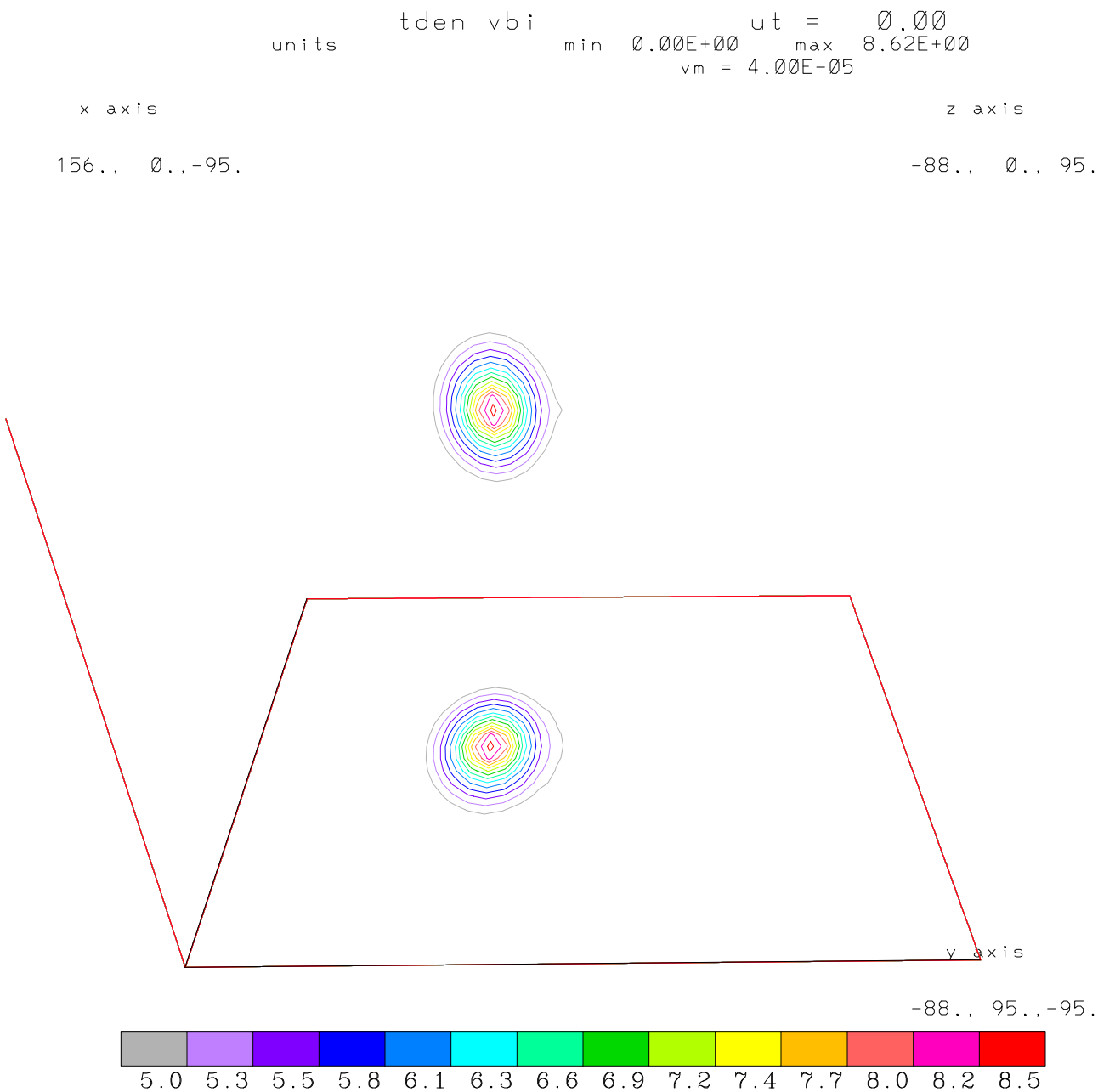
units min 0.00E+00 max 7.30E+00

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.




tden vbi
ut = 0.00
units
min 0.00E+00
max 8.62E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5

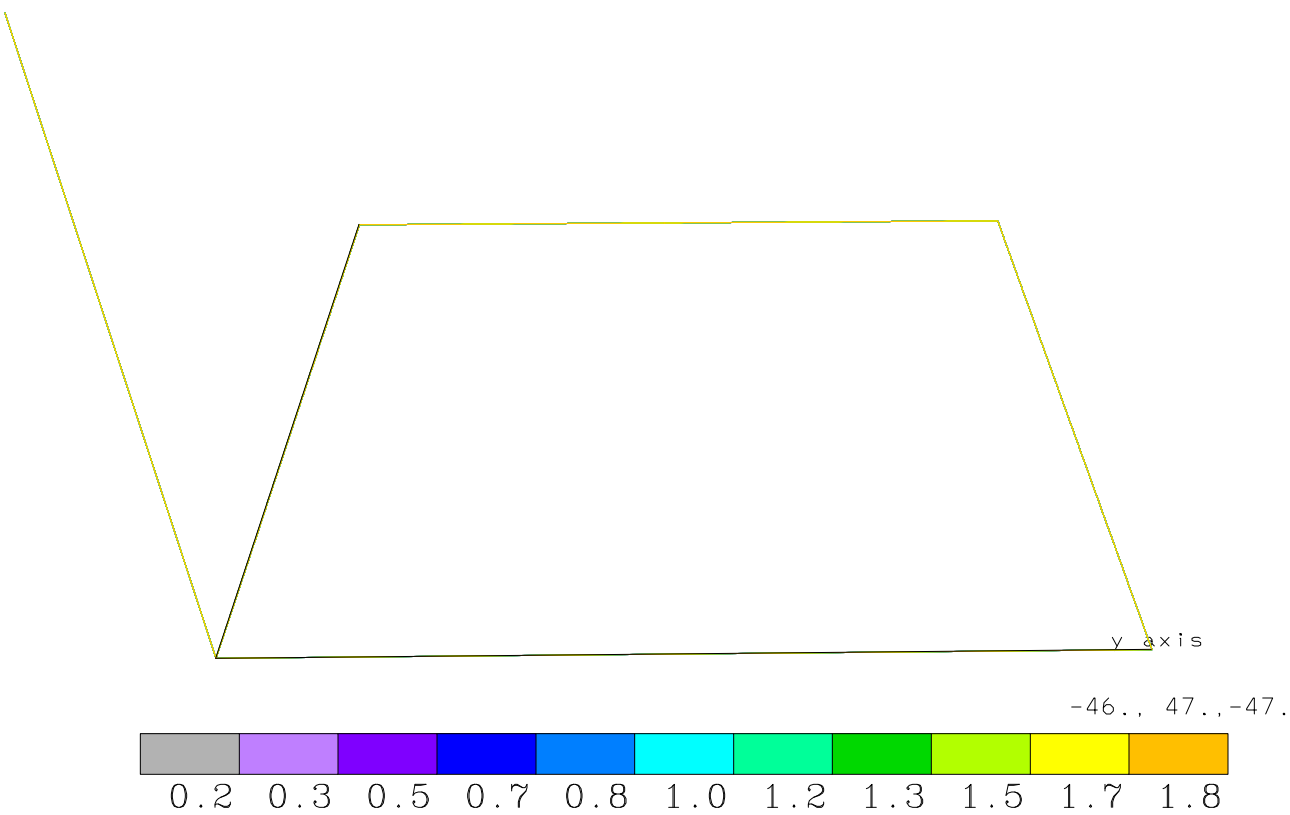
qpreshpr ut = 0.00

units 1.00E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



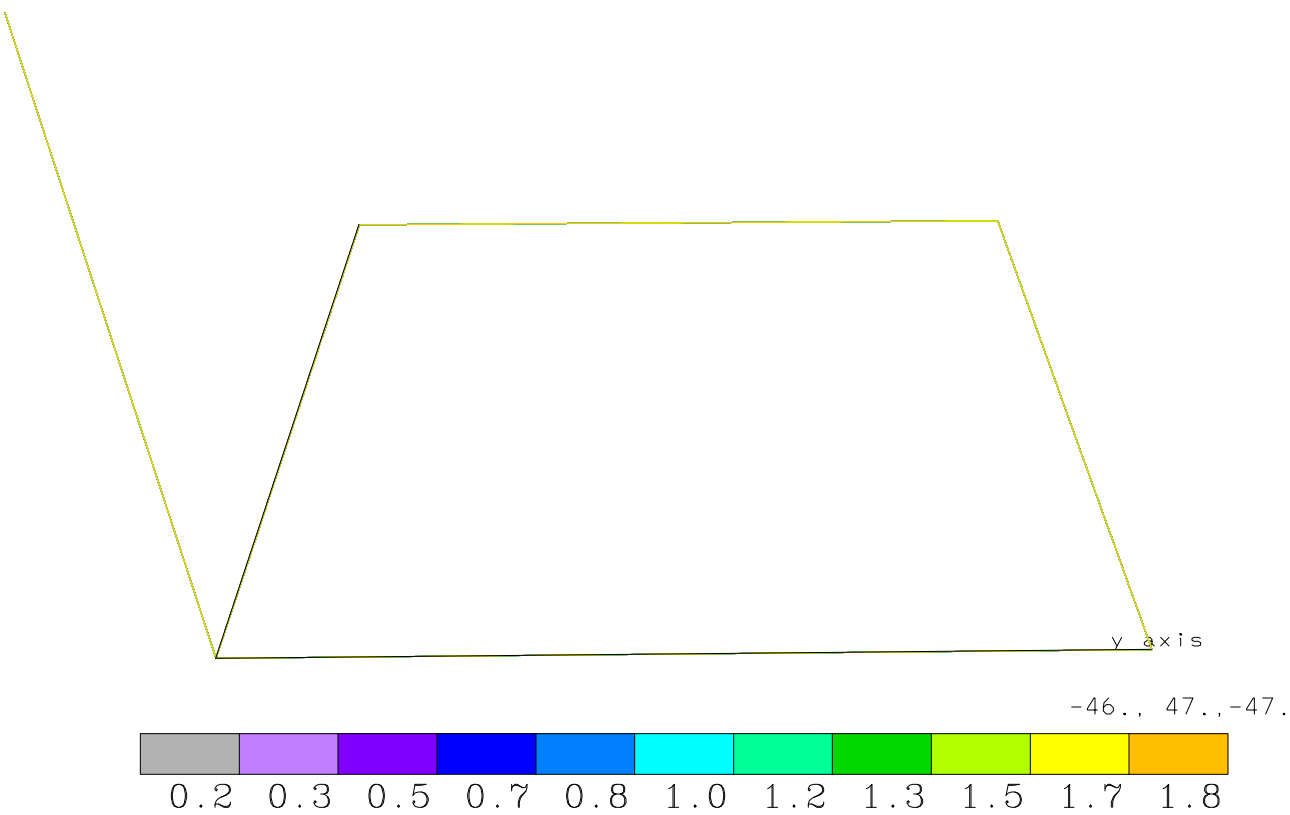
hpresopr ut = 0.00

units 1.00E-01 min 0.00E+00 max 7.75E-03

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



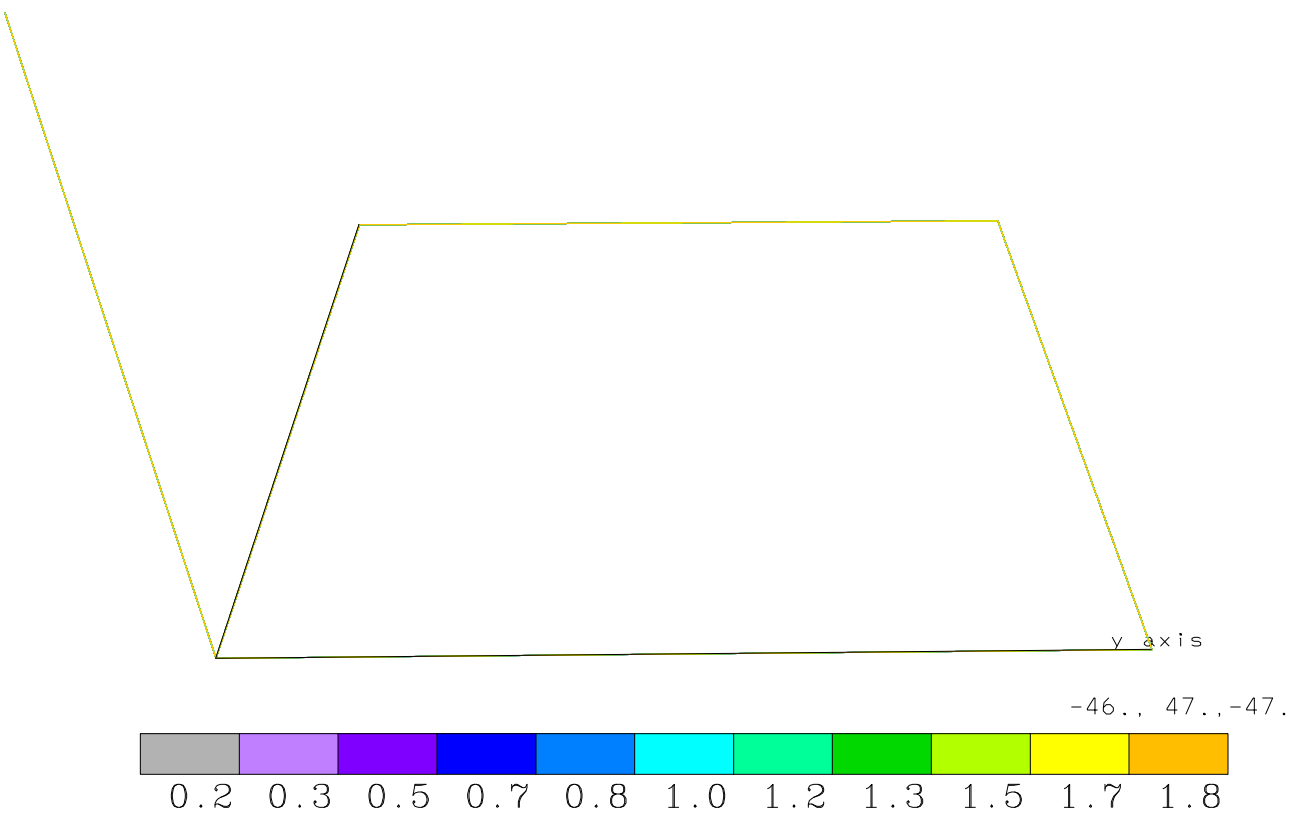
oprespre ut = 0.00

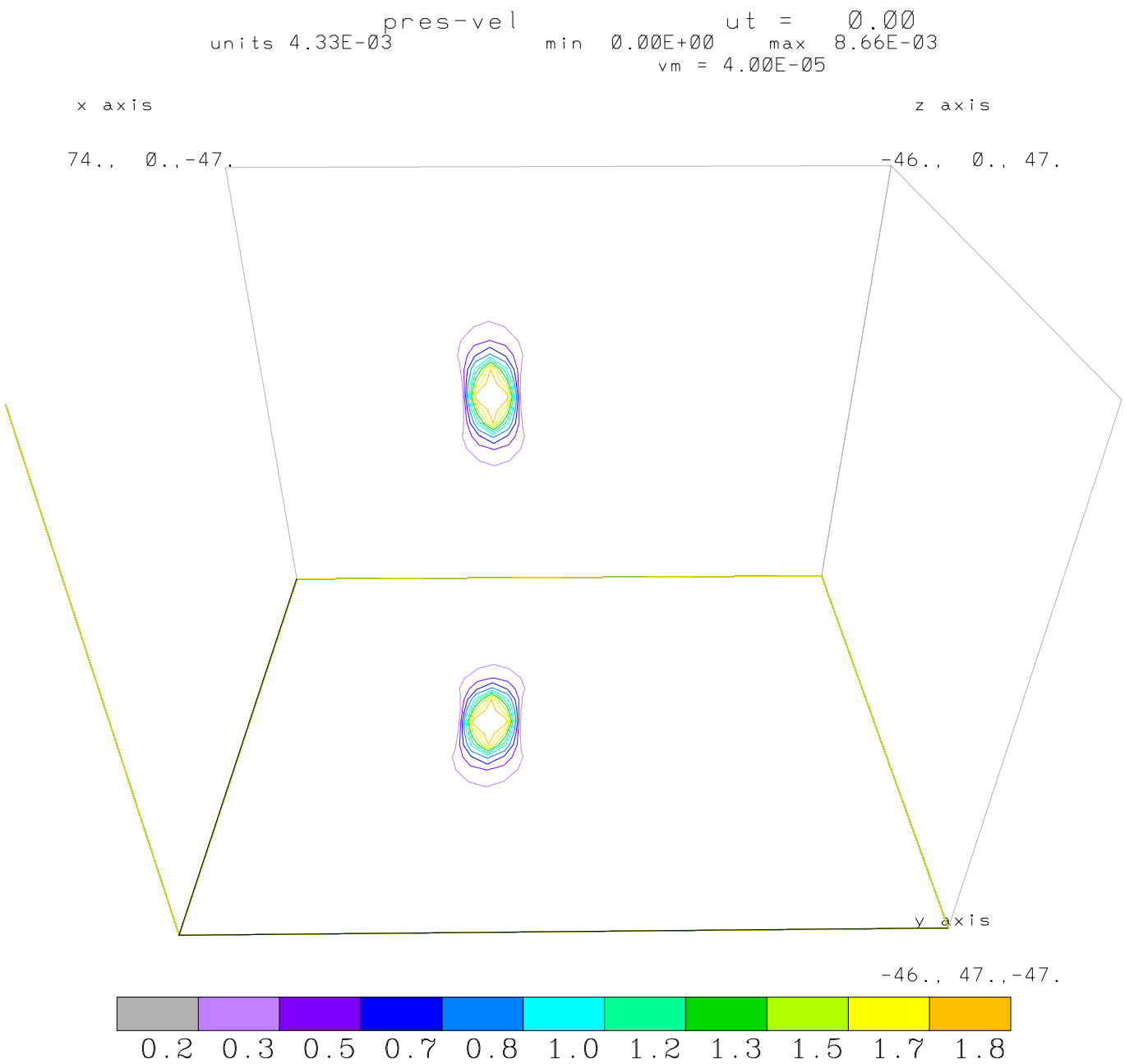
units 1.00E-01 min 0.00E+00 max 1.73E-03

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.




pres-vel
ut = 0.00
units 4.33E-03
min 0.00E+00
max 8.66E-03
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

box 2 : dawn dusk ut = 0.00

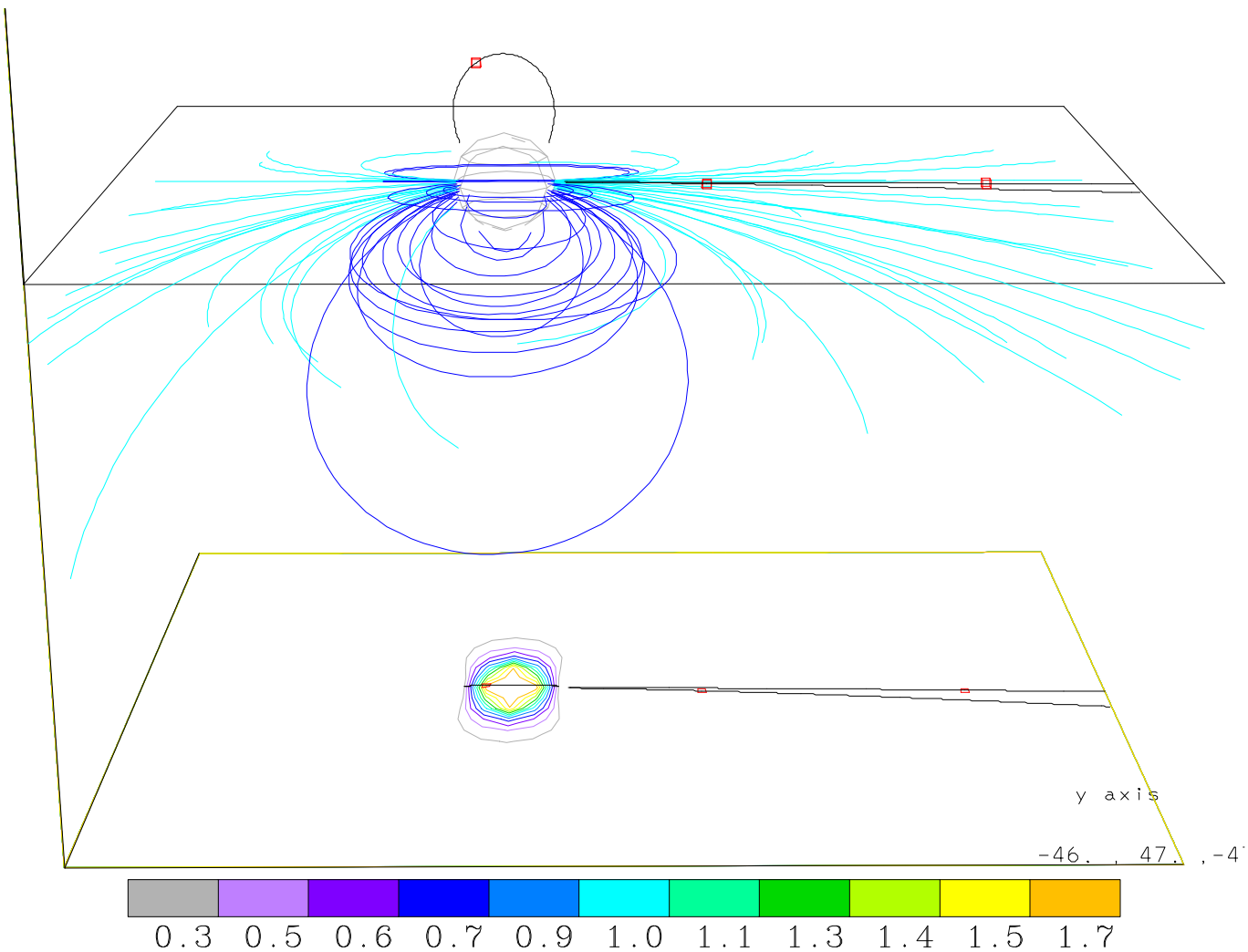
units 4.76E-03 min 8.66E-04 max 8.66E-03

vm = 4.00E-05

craft lat,MLT 2 1.0,-65.8, 0.2
craft lat,MLT 2 1.0, 65.8, 0.2
craft lat,MLT 3 1.0,-89.1, 18.0
craft lat,MLT 4 1.0,-89.7, 18.0

z axis

74. ,-47. , 47.



0.3 0.5 0.6 0.7 0.9 1.0 1.1 1.3 1.4 1.5 1.7

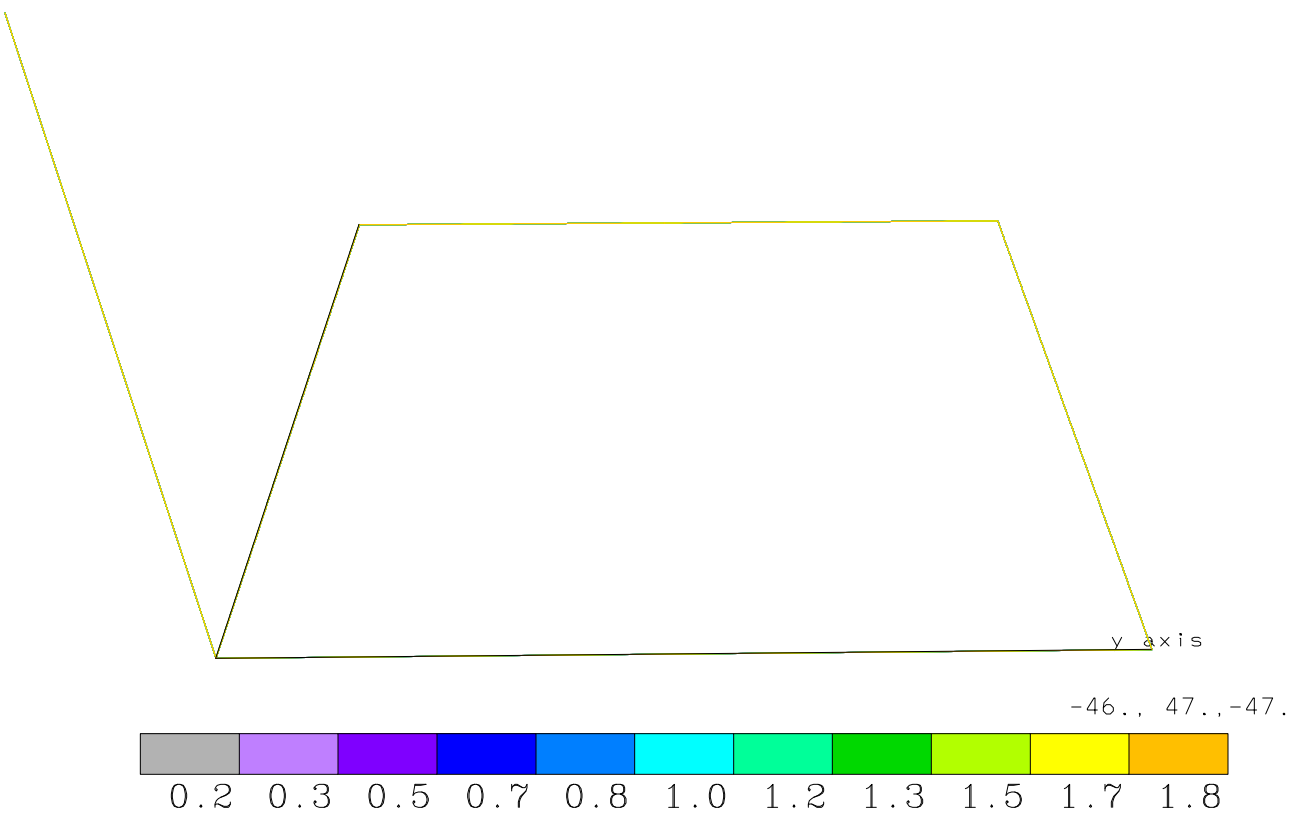
epresq t ut = 0.00

units 2.00E-01 min 0.00E+00 max 3.46E-03

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



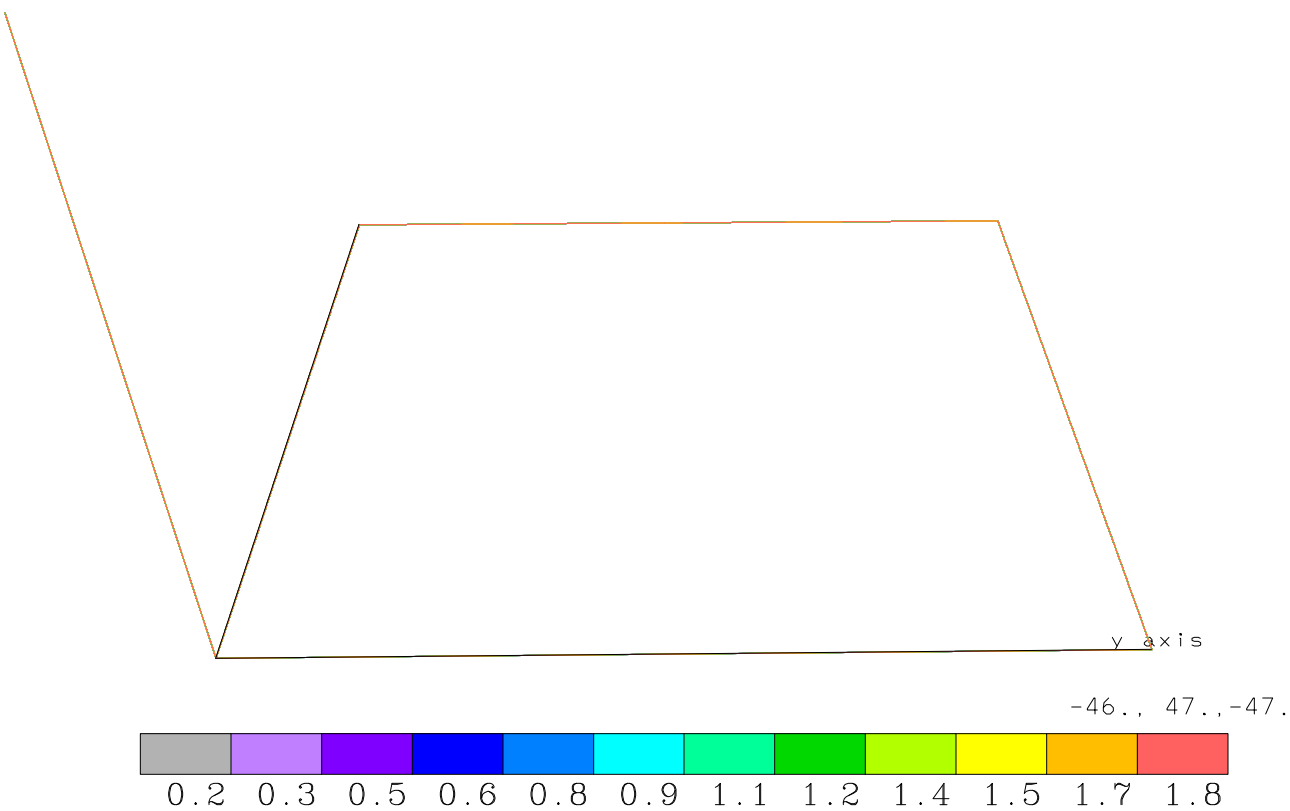
q temph ut = 0.00

units 2.50E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



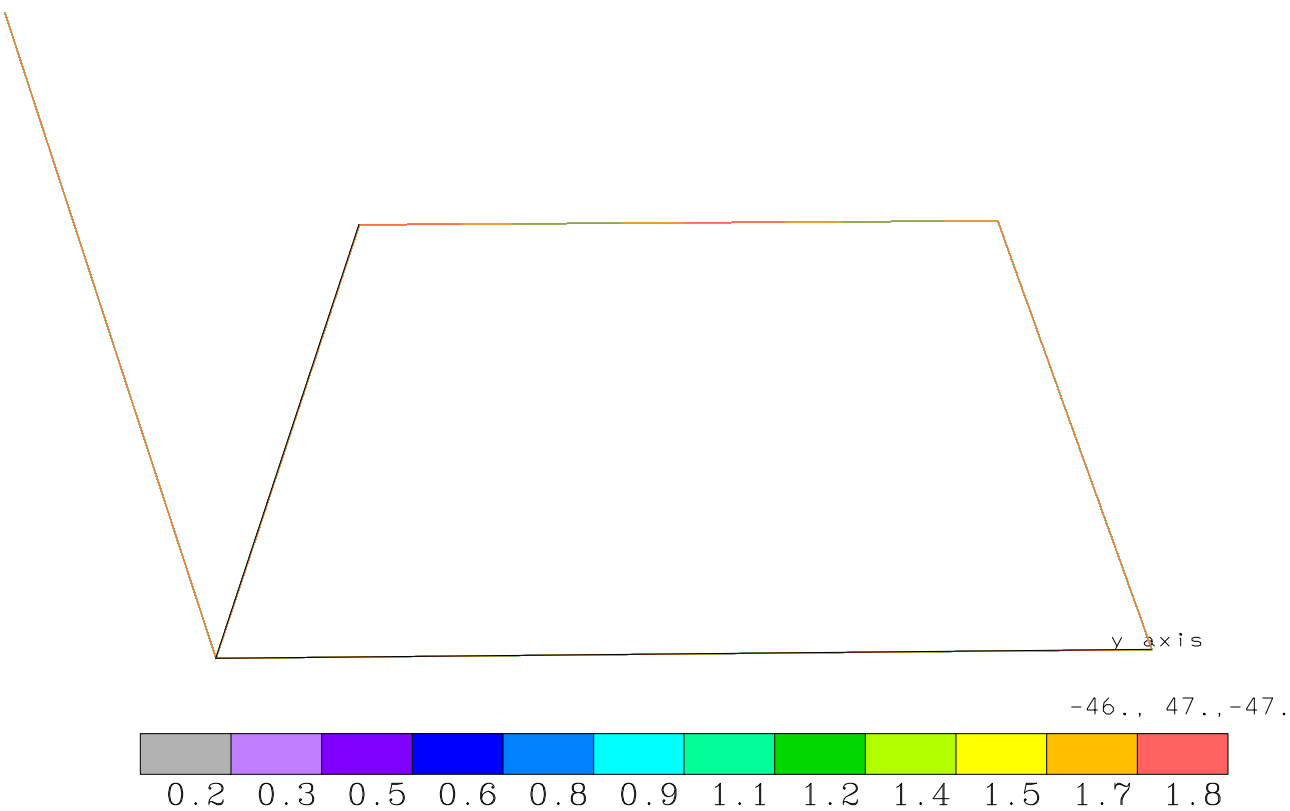
h tempo ut = 0.00

units 2.50E-01 min 0.00E+00 max 1.56E-02

vm = 4.00E-05

x axis z axis

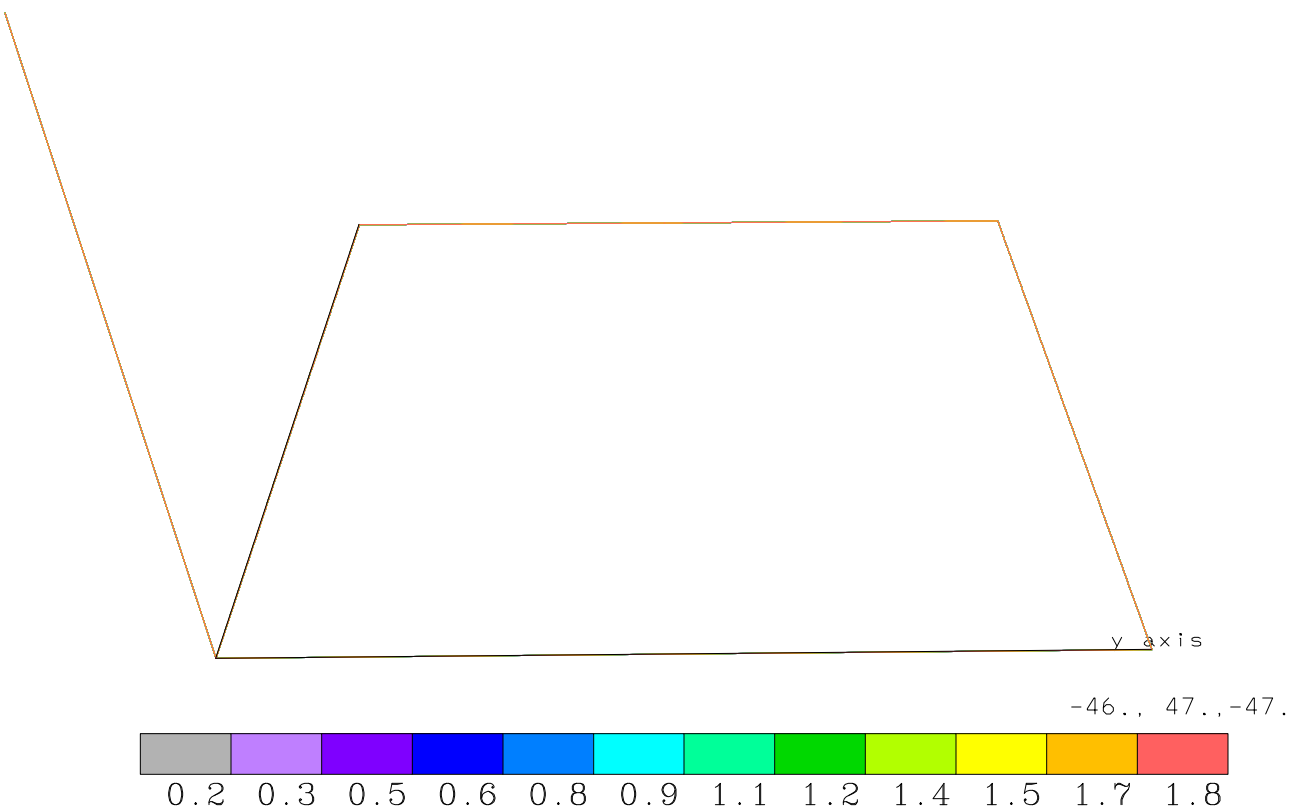
74., 0.,-47. -46., 0., 47.



o tempe ut = 0.00
units 2.50E-01 min 0.00E+00 max 2.46E-02
vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



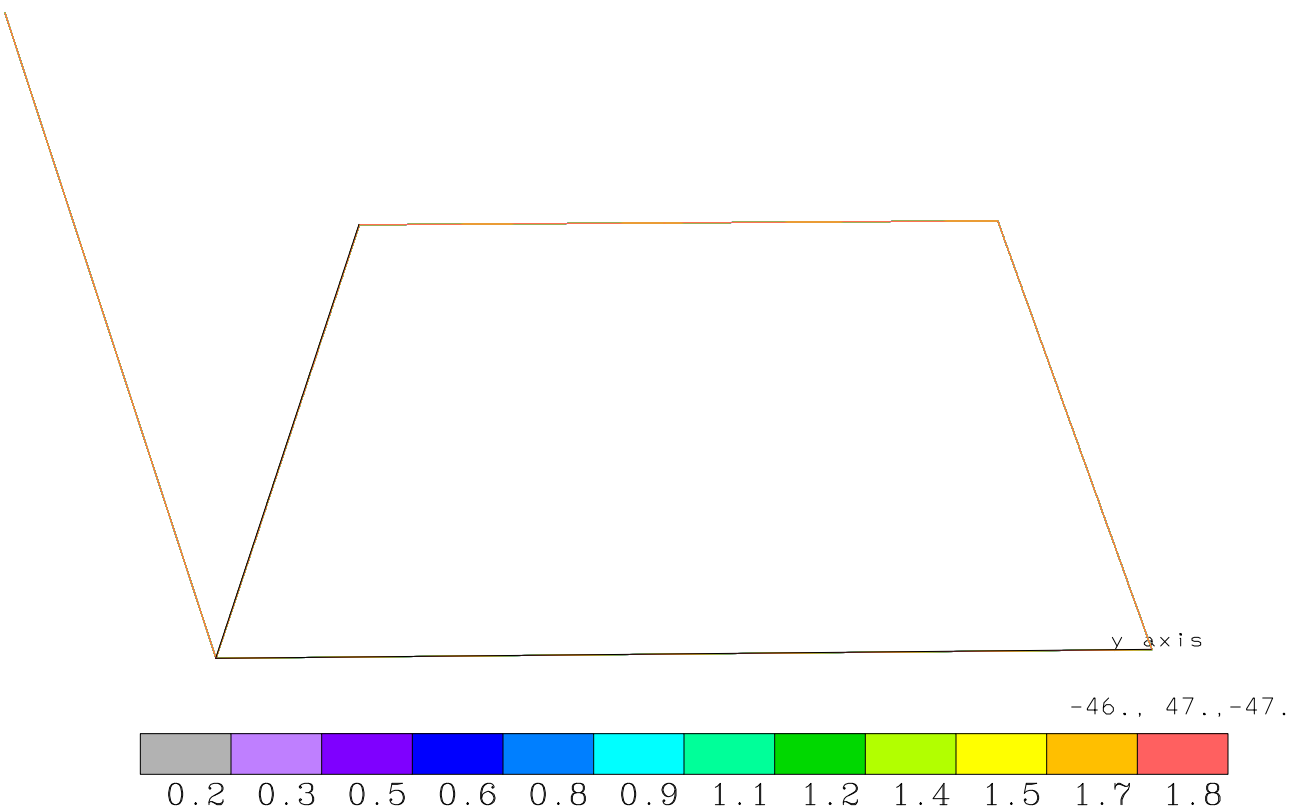
e tempq ut = 0.00

units 1.12E-01 min 0.00E+00 max 4.89E-03

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



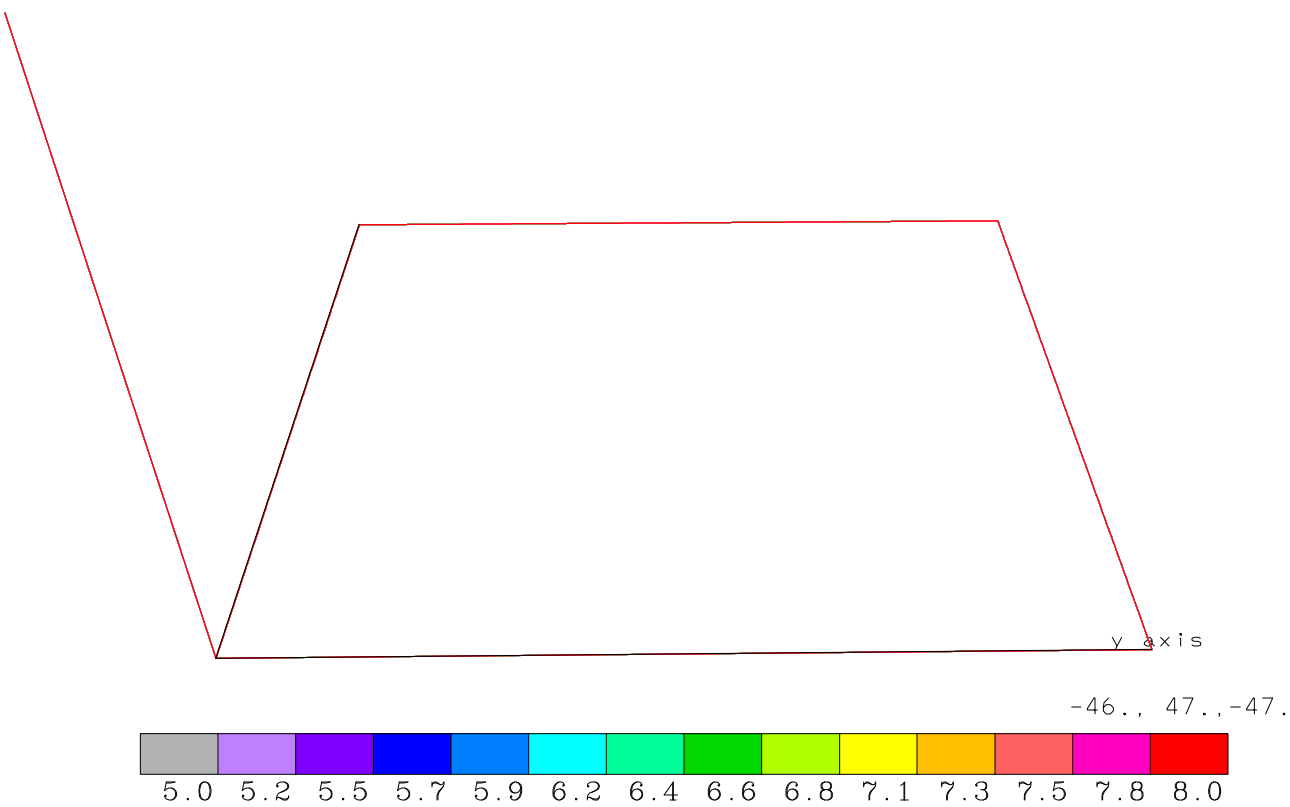
q den vh ut = 0.00

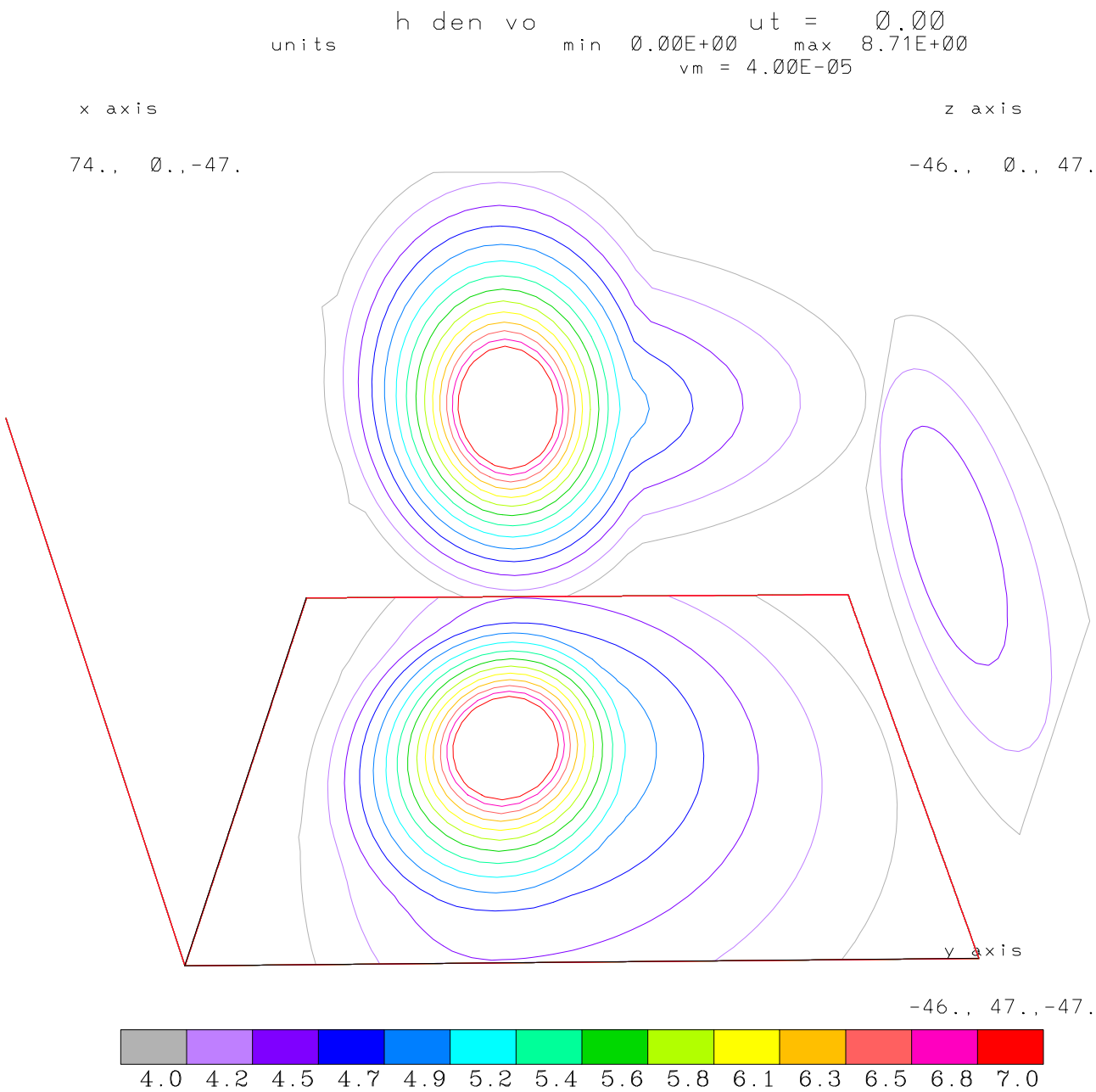
units min 0.00E+00 max 4.00E+00

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.




h den vo ut = 0.00
units min 0.00E+00 max 8.71E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

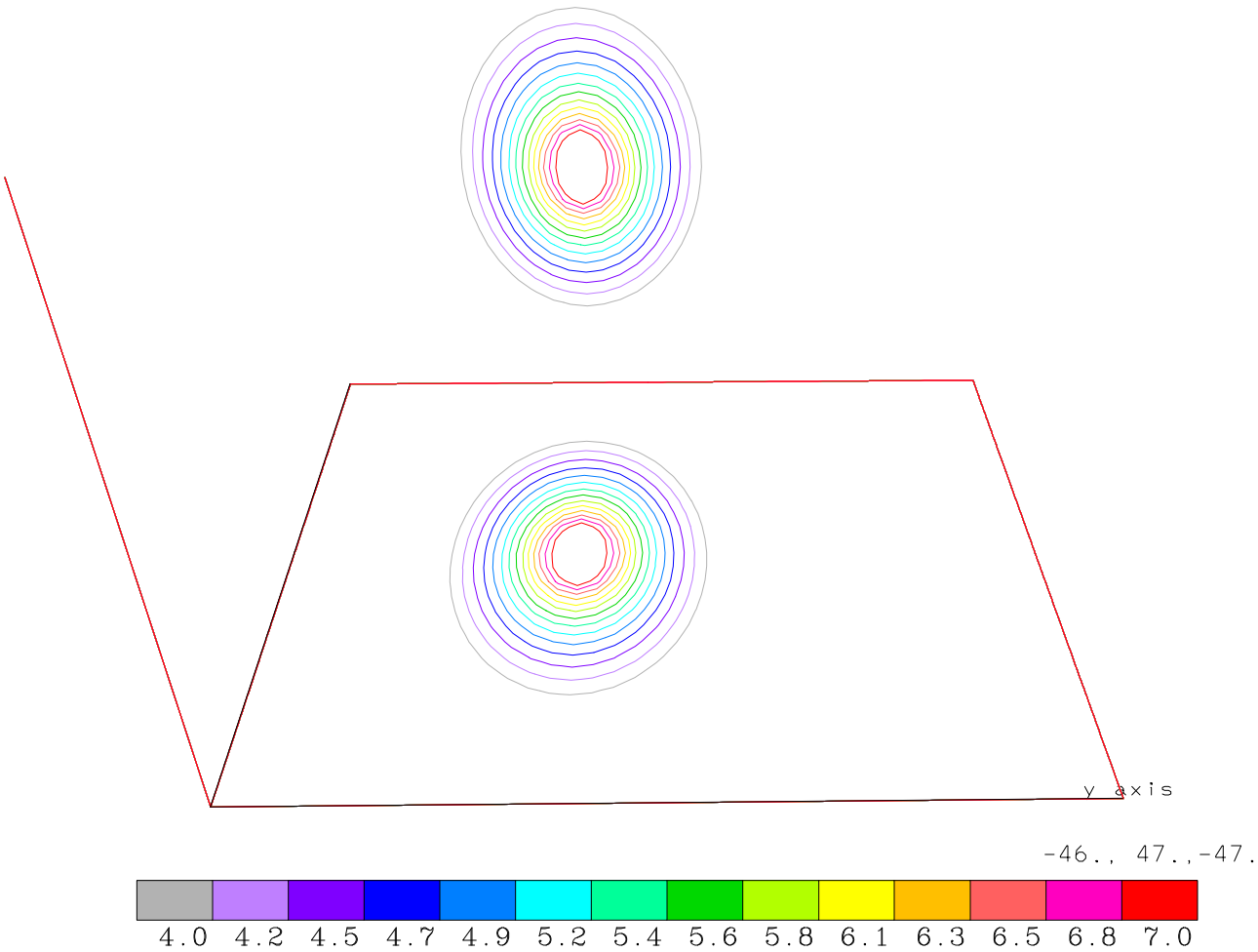
o den vt ut = 0.00

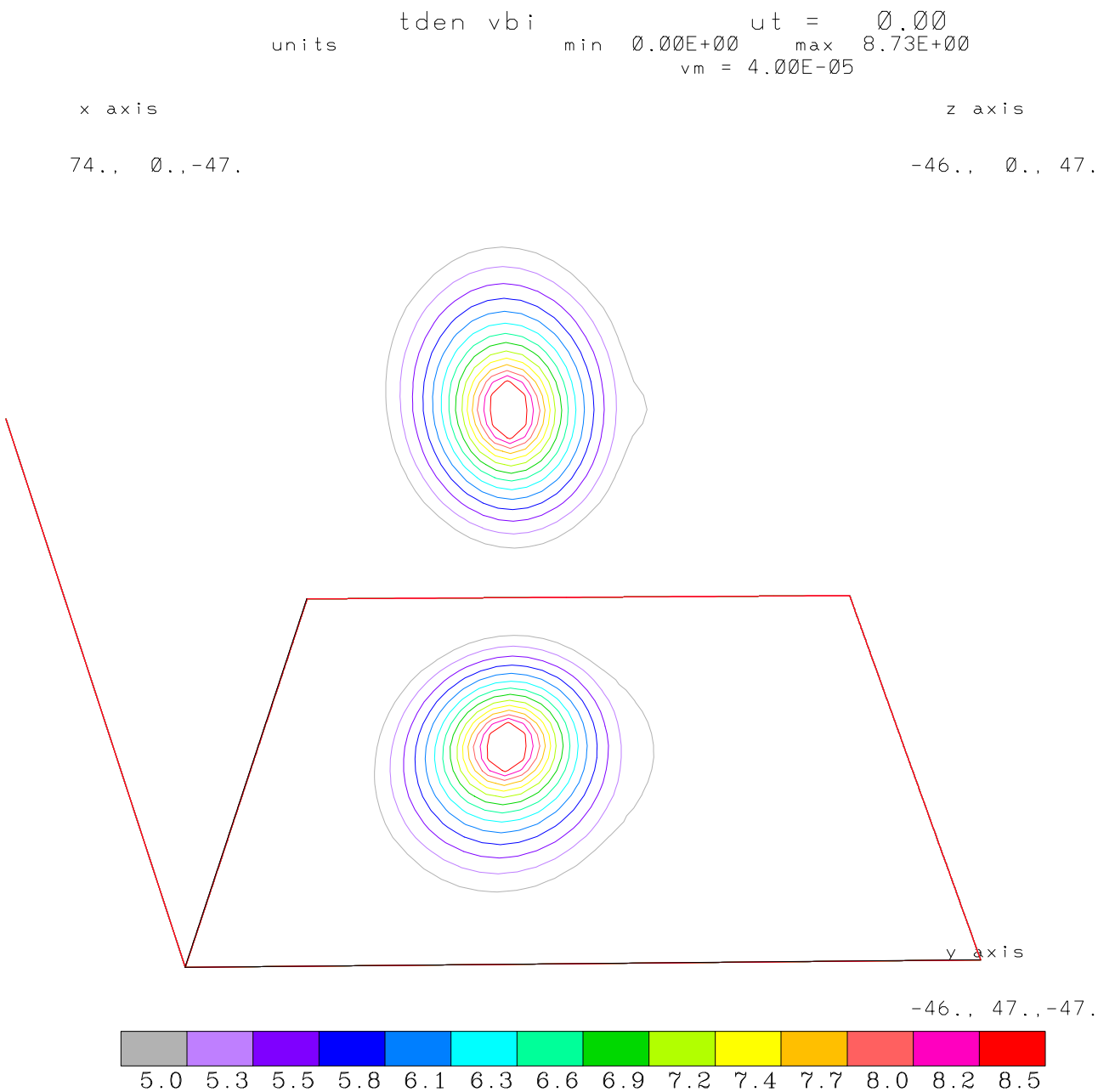
units min 0.00E+00 max 7.41E+00

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.




tden vbi
ut = 0.00
units
min 0.00E+00
max 8.73E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5

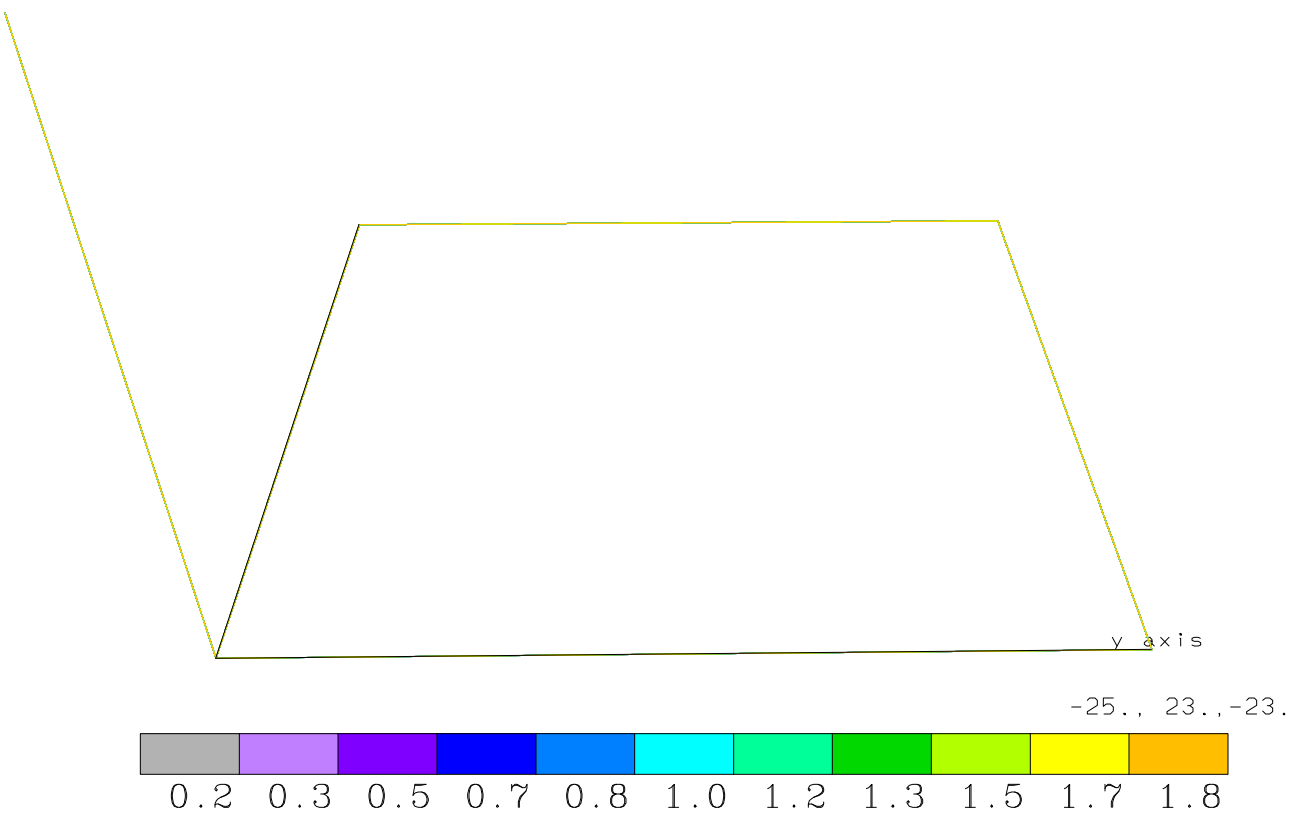
qpreshpr ut = 0.00

units 1.00E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



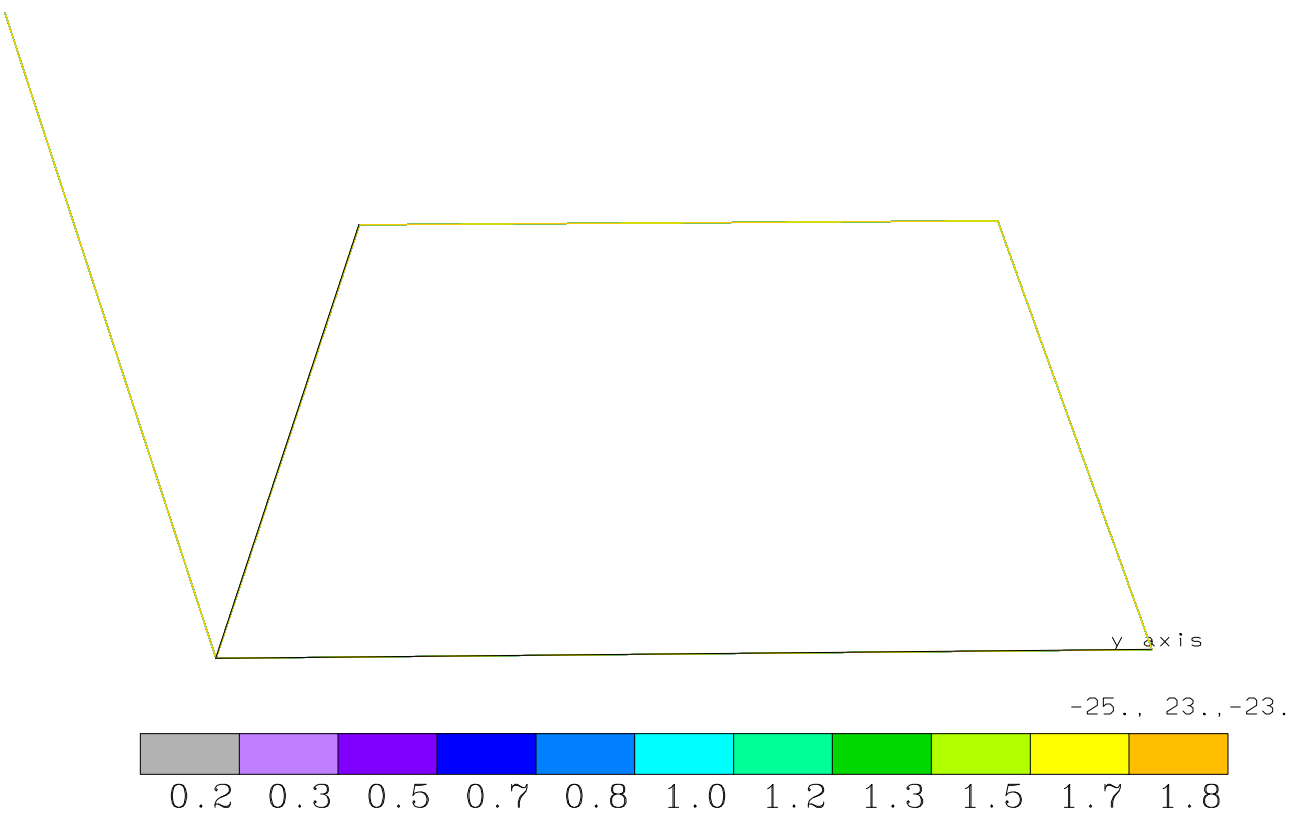
hpresopr ut = 0.00

units 1.00E-01 min 0.00E+00 max 7.77E-03

vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



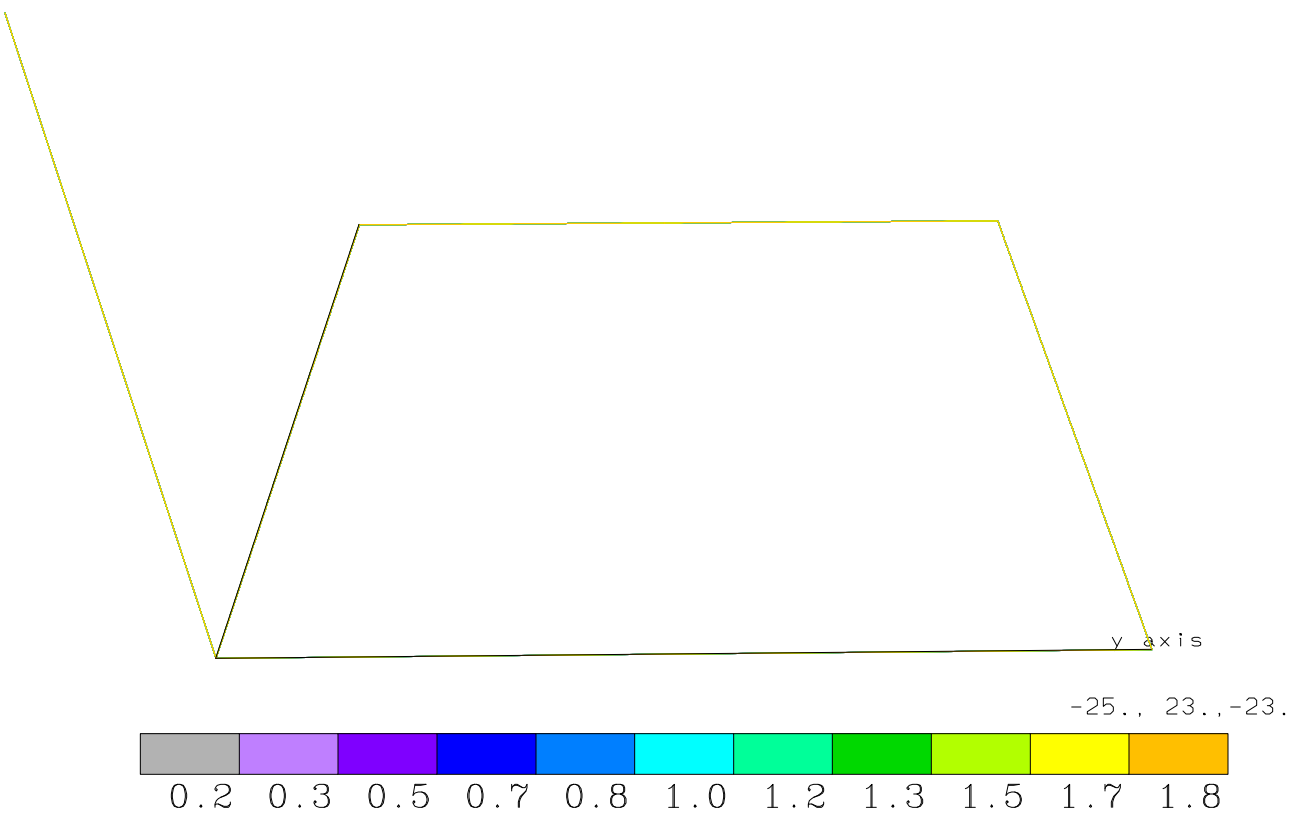
oprespre ut = 0.00

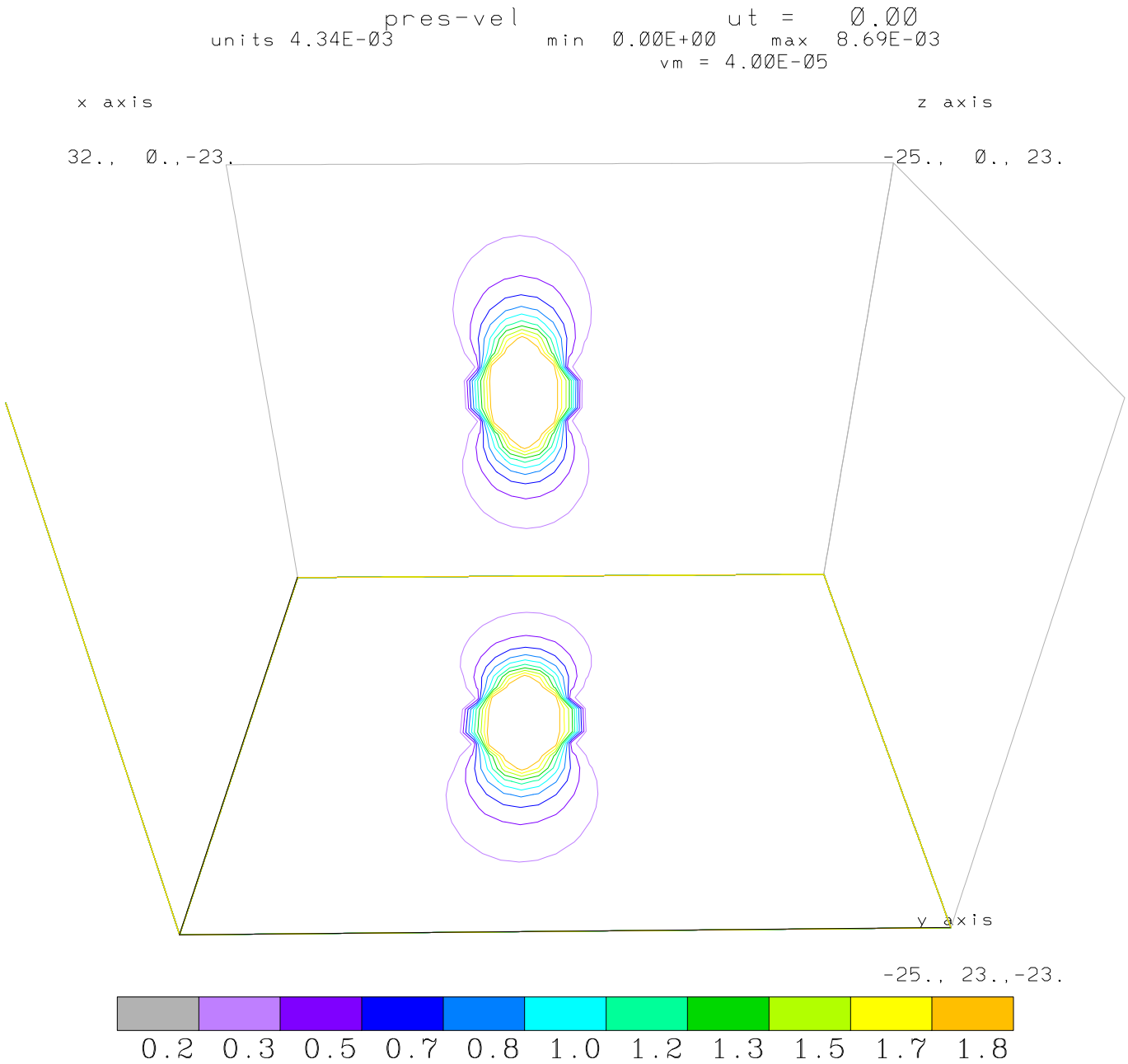
units 1.00E-01 min 0.00E+00 max 1.74E-03

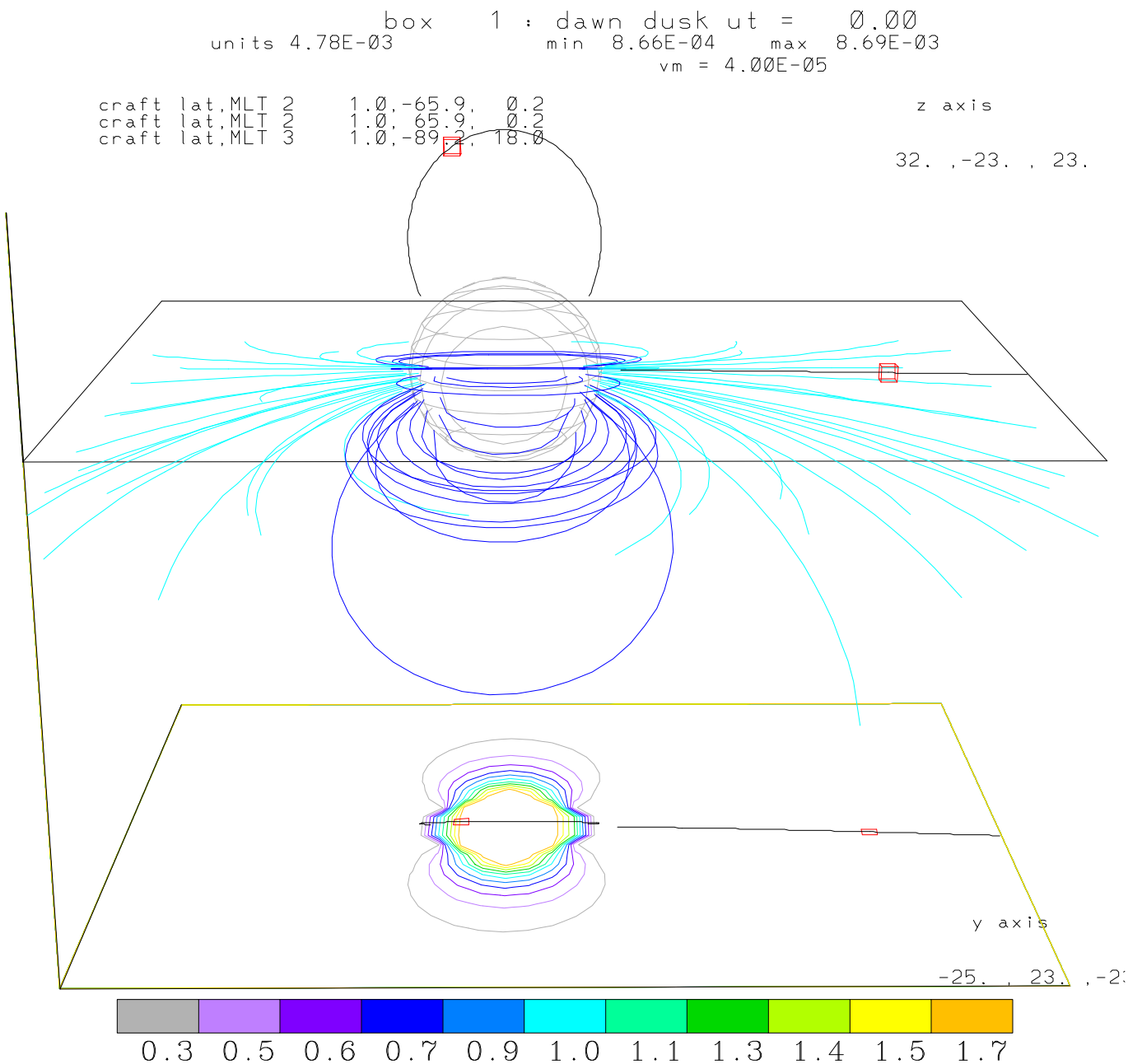
vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.




pres-vel
ut = 0.00
units 4.34E-03
min 0.00E+00
max 8.69E-03
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 1 : dawn dusk ut = 0.00
units 4.78E-03
min 8.66E-04 max 8.69E-03
vm = 4.00E-05
craft lat,MLT 2 1.0,-65.9, 0.2
craft lat,MLT 2 1.0, 65.9, 0.2
craft lat,MLT 3 1.0,-89.2, 18.0
z axis
32. ,-23. , 23.
y axis
-25. , 23. ,-2
0.3 0.5 0.6 0.7 0.9 1.0 1.1 1.3 1.4 1.5 1.7

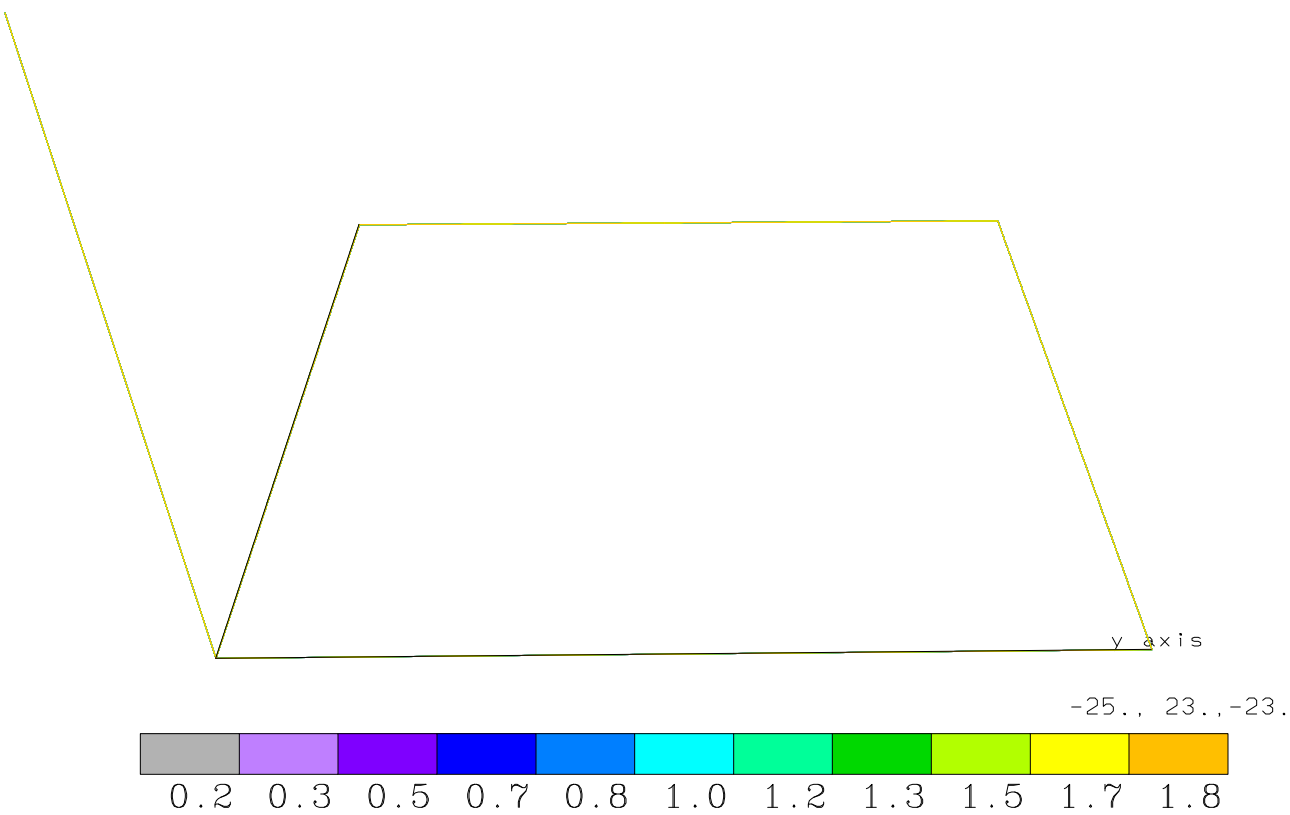
epresq t ut = 0.00

units 2.00E-01 min 0.00E+00 max 3.47E-03

vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



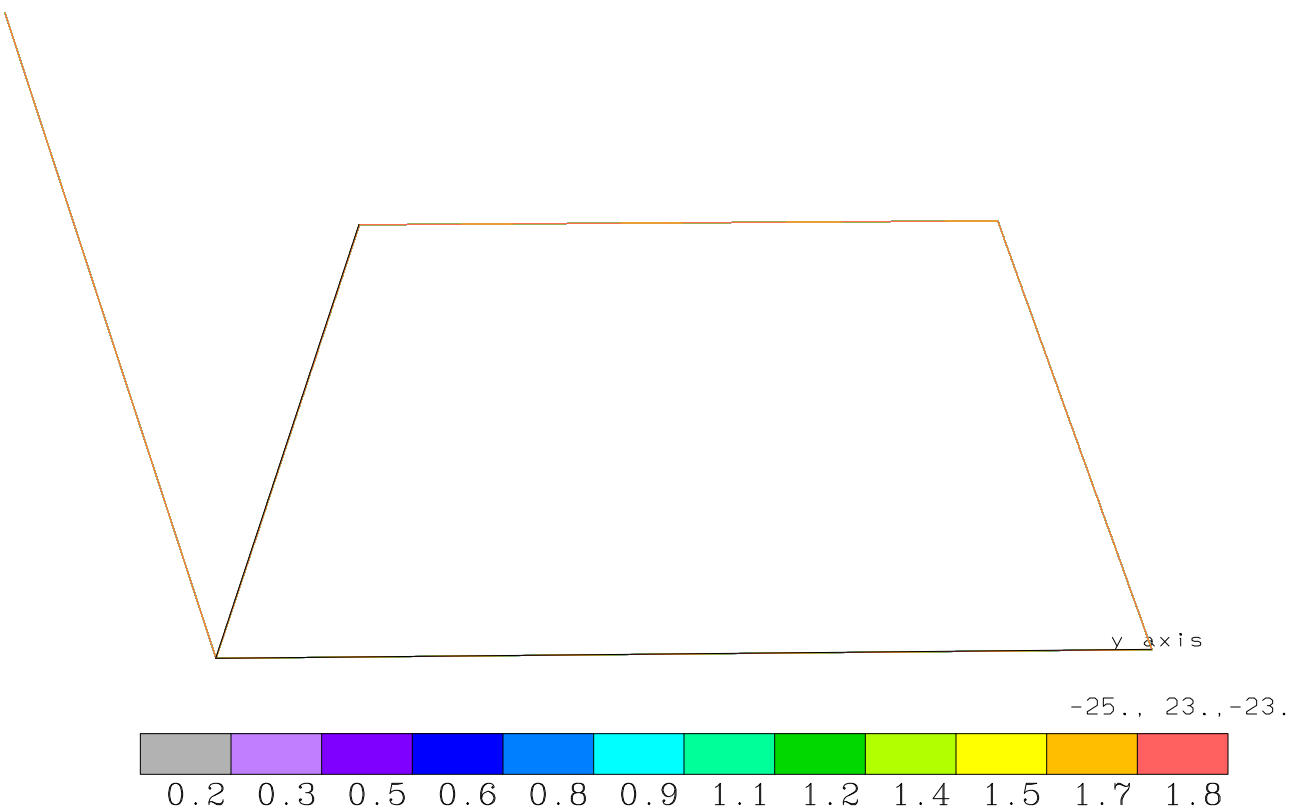
q temph ut = 0.00

units 2.50E-01 min 0.00E+00 max 0.00E+00

vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



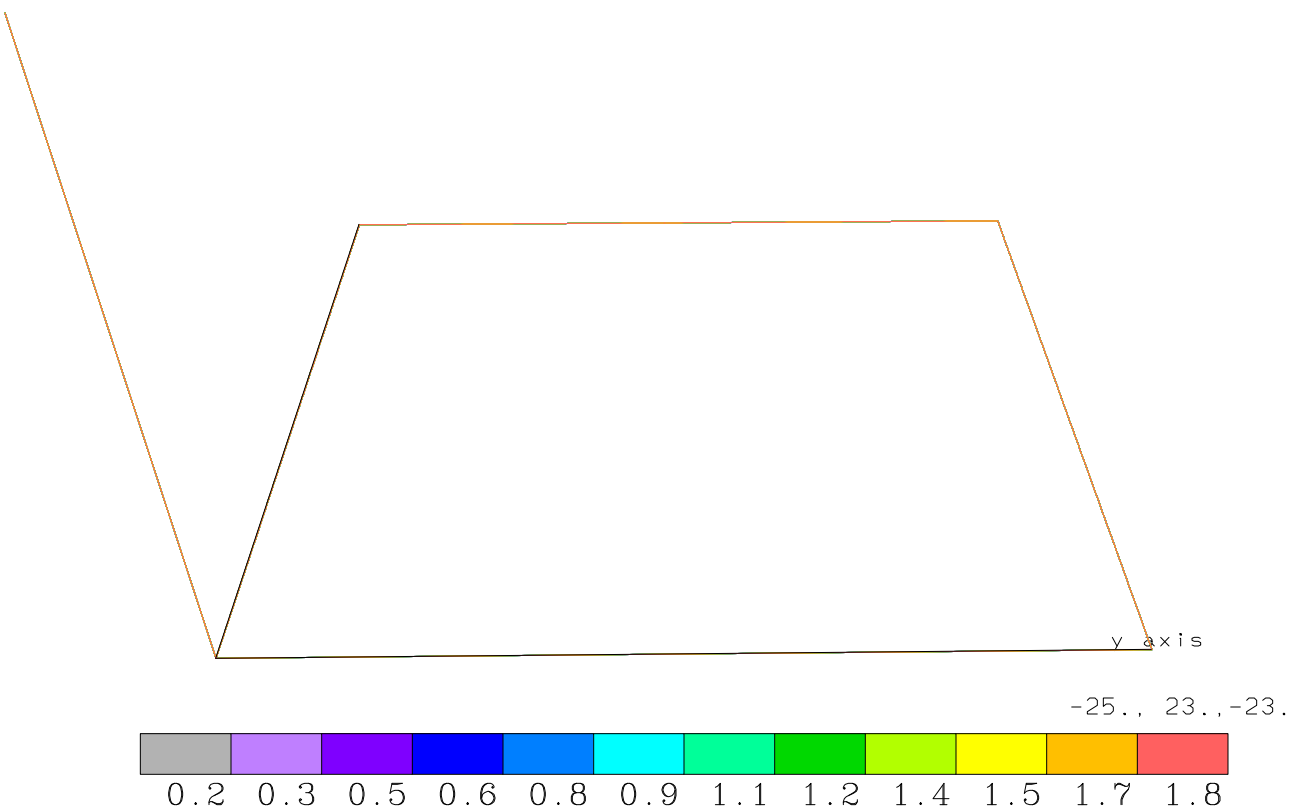
h tempo ut = 0.00

units 2.50E-01 min 0.00E+00 max 1.00E-02

vm = 4.00E-05

x axis z axis

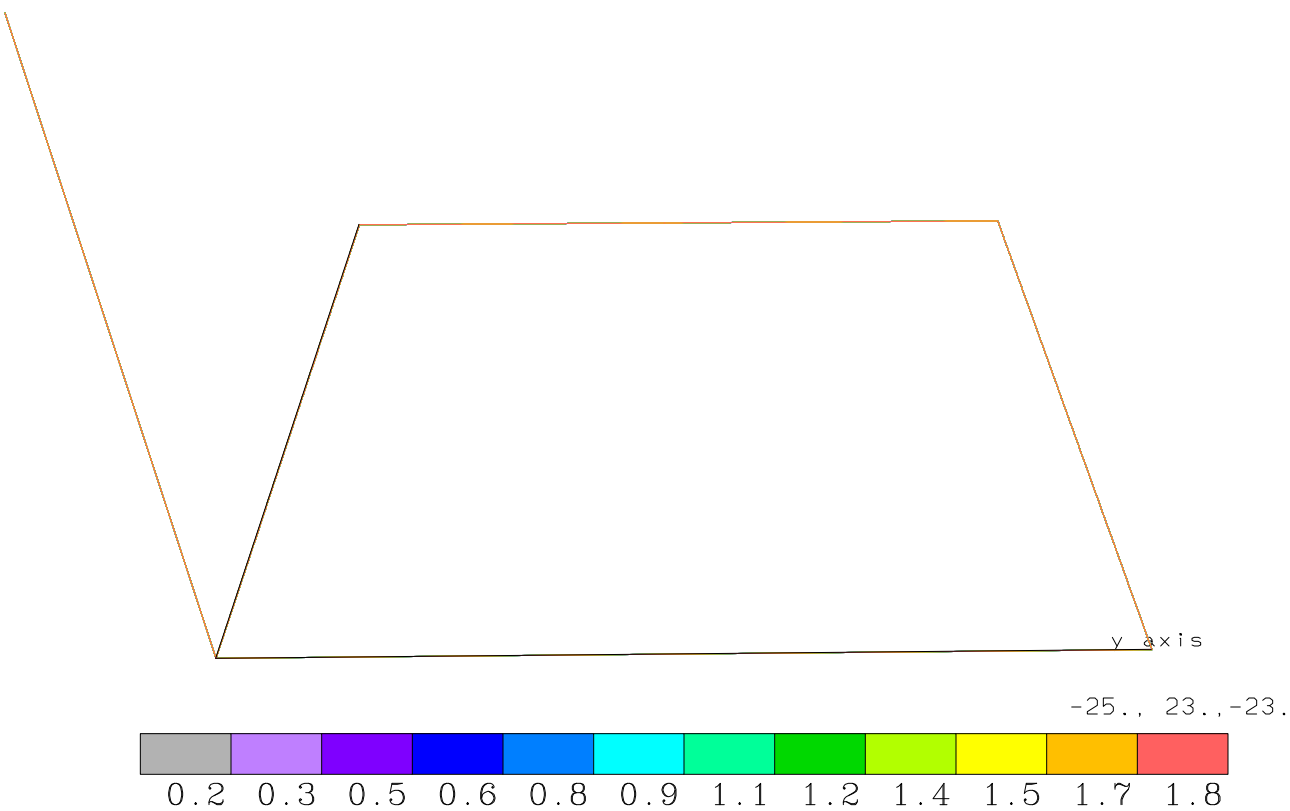
32., 0.,-23. -25., 0., 23.



o tempe ut = 0.00
units 2.50E-01 min 0.00E+00 max 1.54E-02
vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



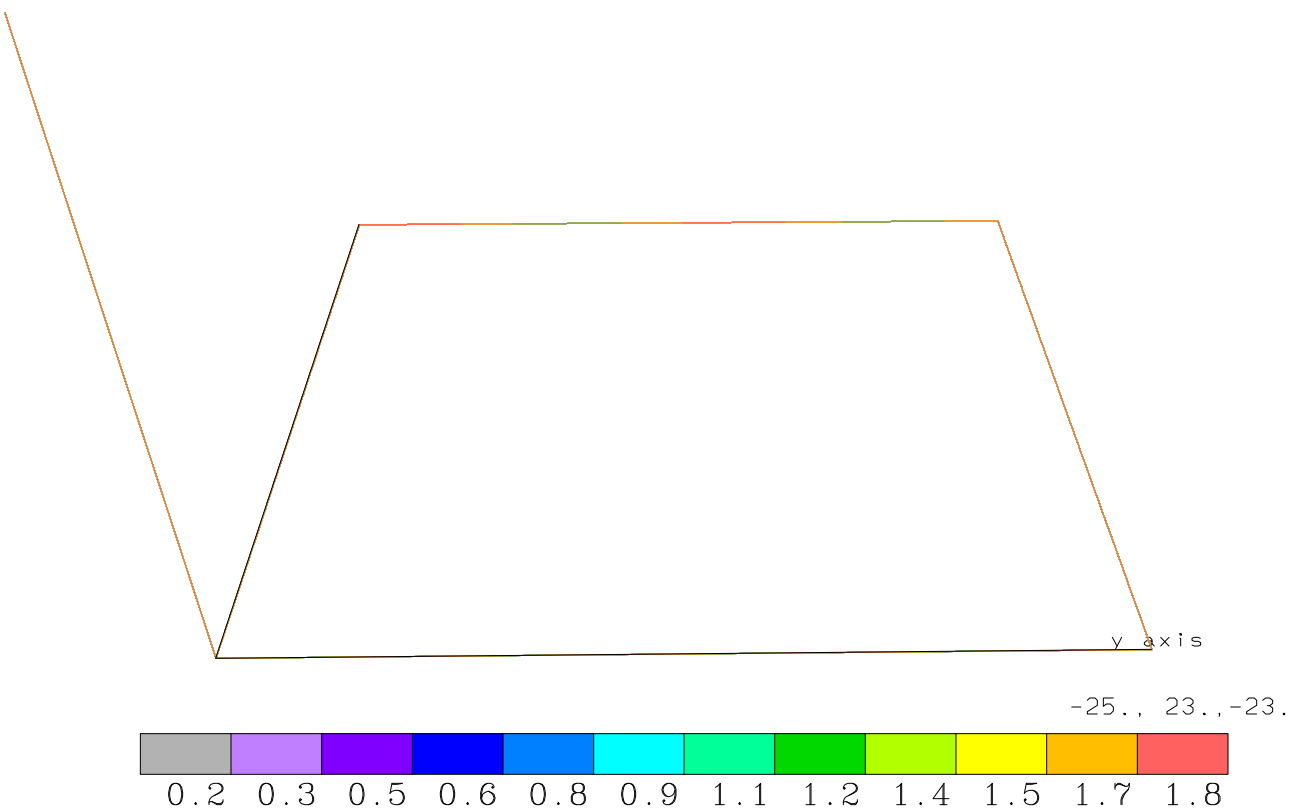
e tempq ut = 0.00

units 1.12E-01 min 0.00E+00 max 3.27E-03

vm = 4.00E-05

x axis z axis

32., 0.,-23. -25., 0., 23.



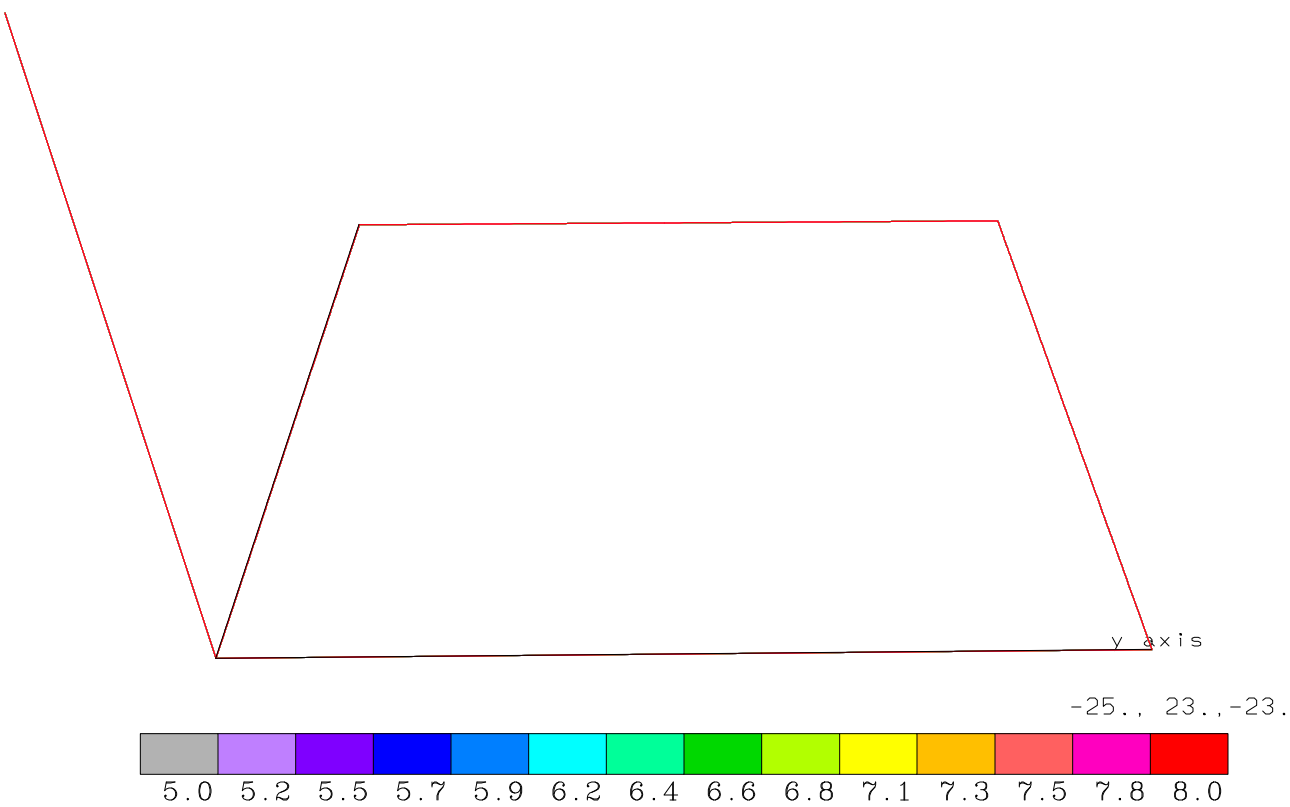
q den vh ut = 0.00

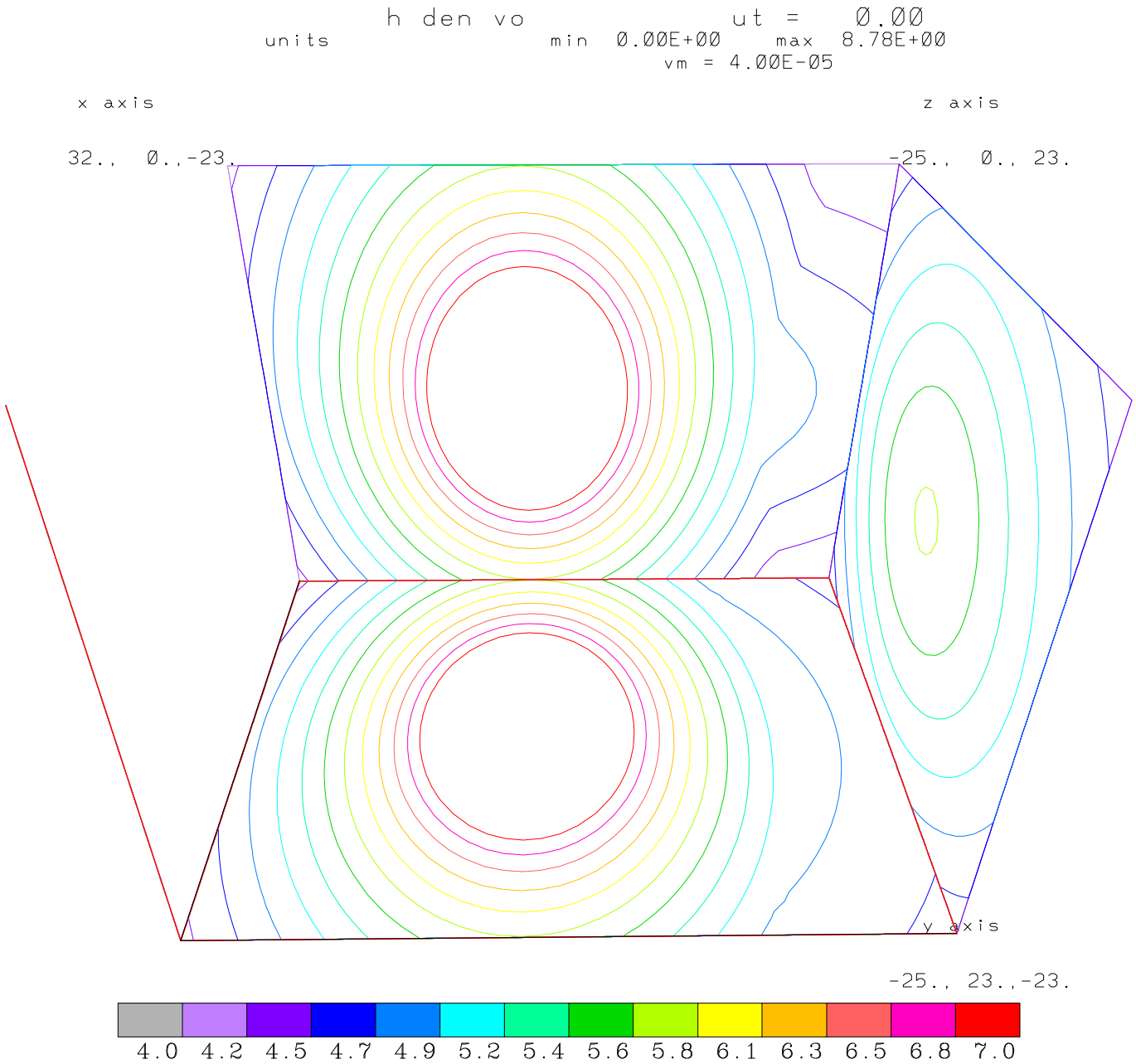
units min 0.00E+00 max 4.00E+00

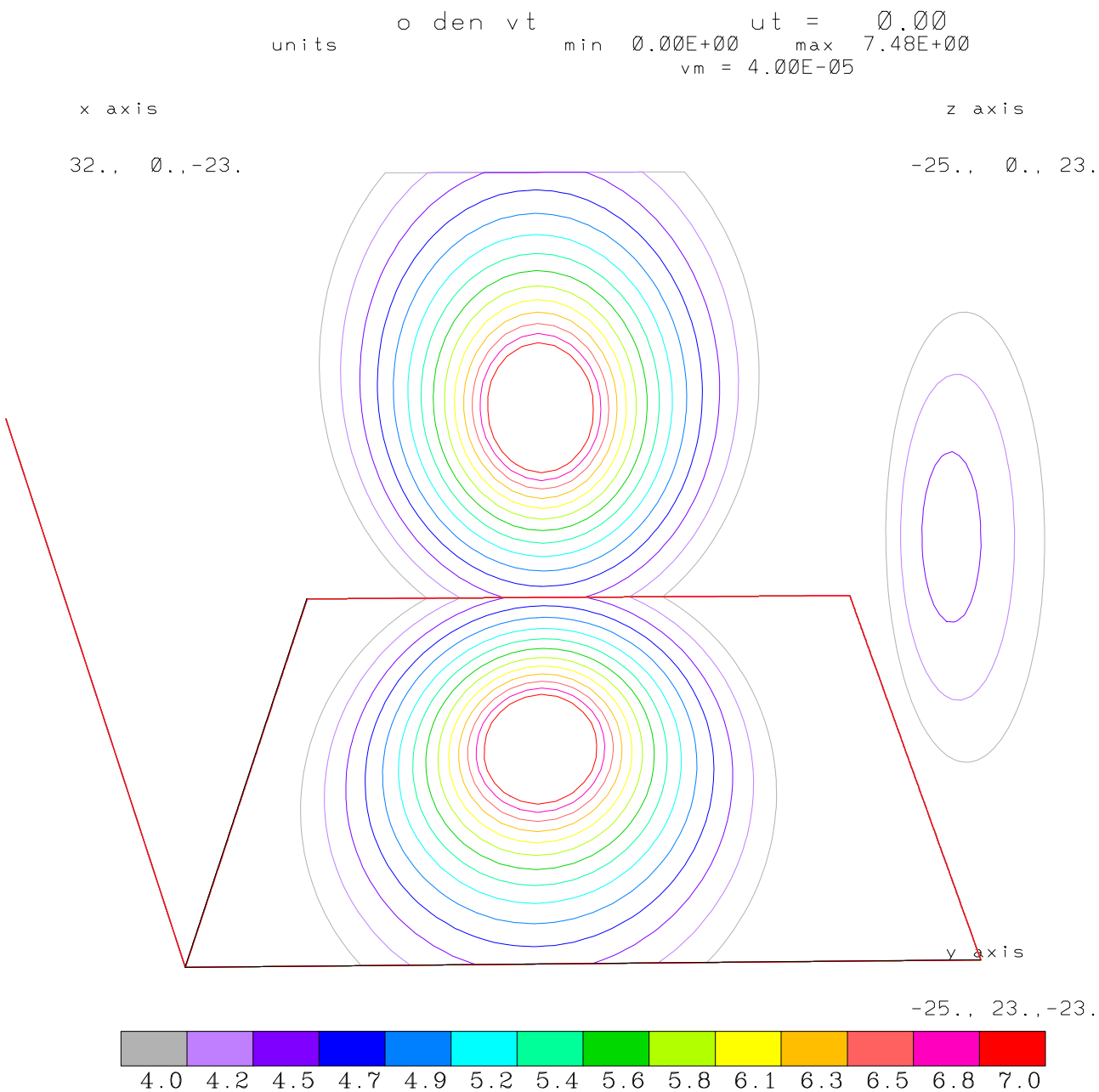
vm = 4.00E-05

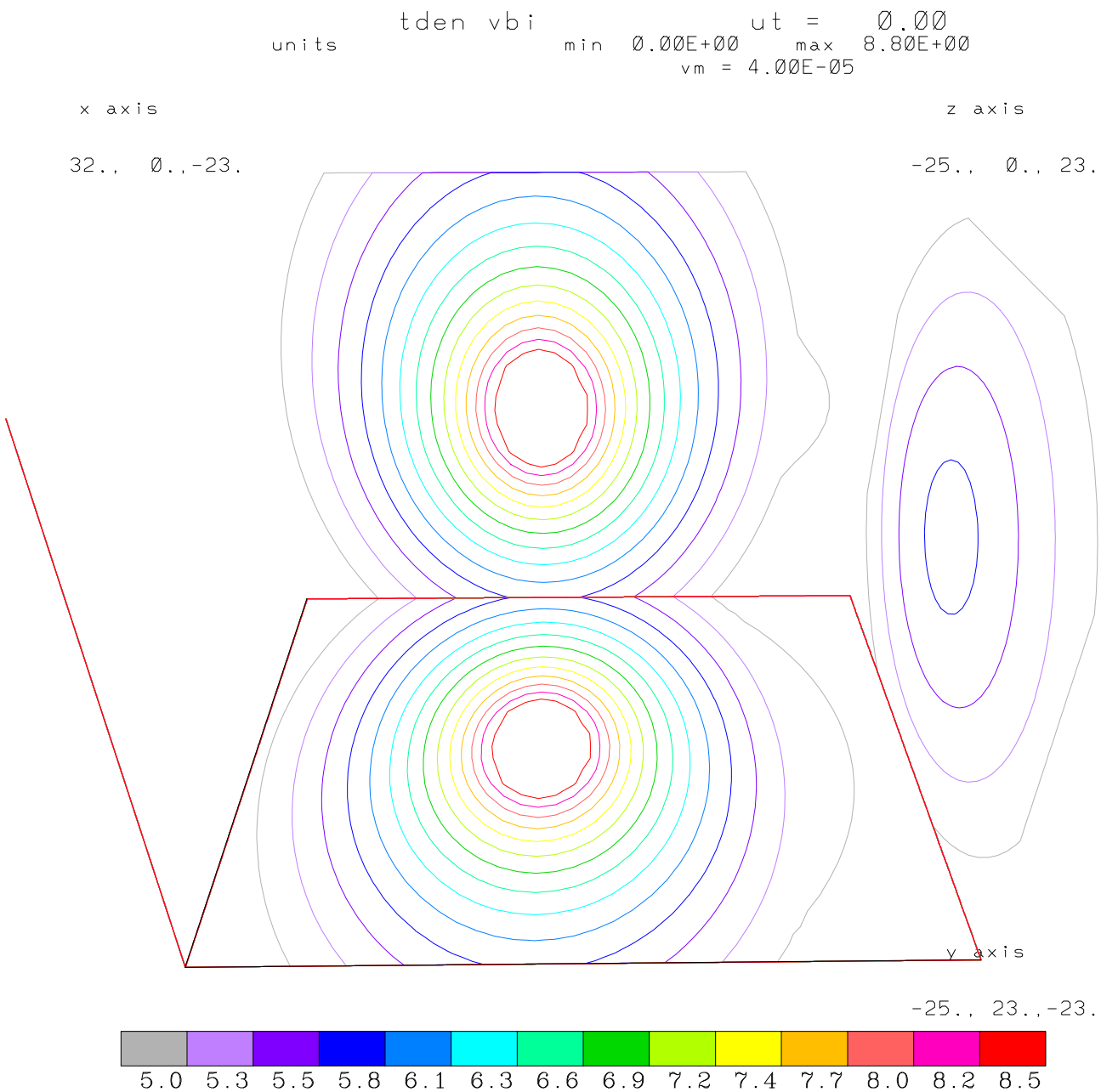
x axis z axis

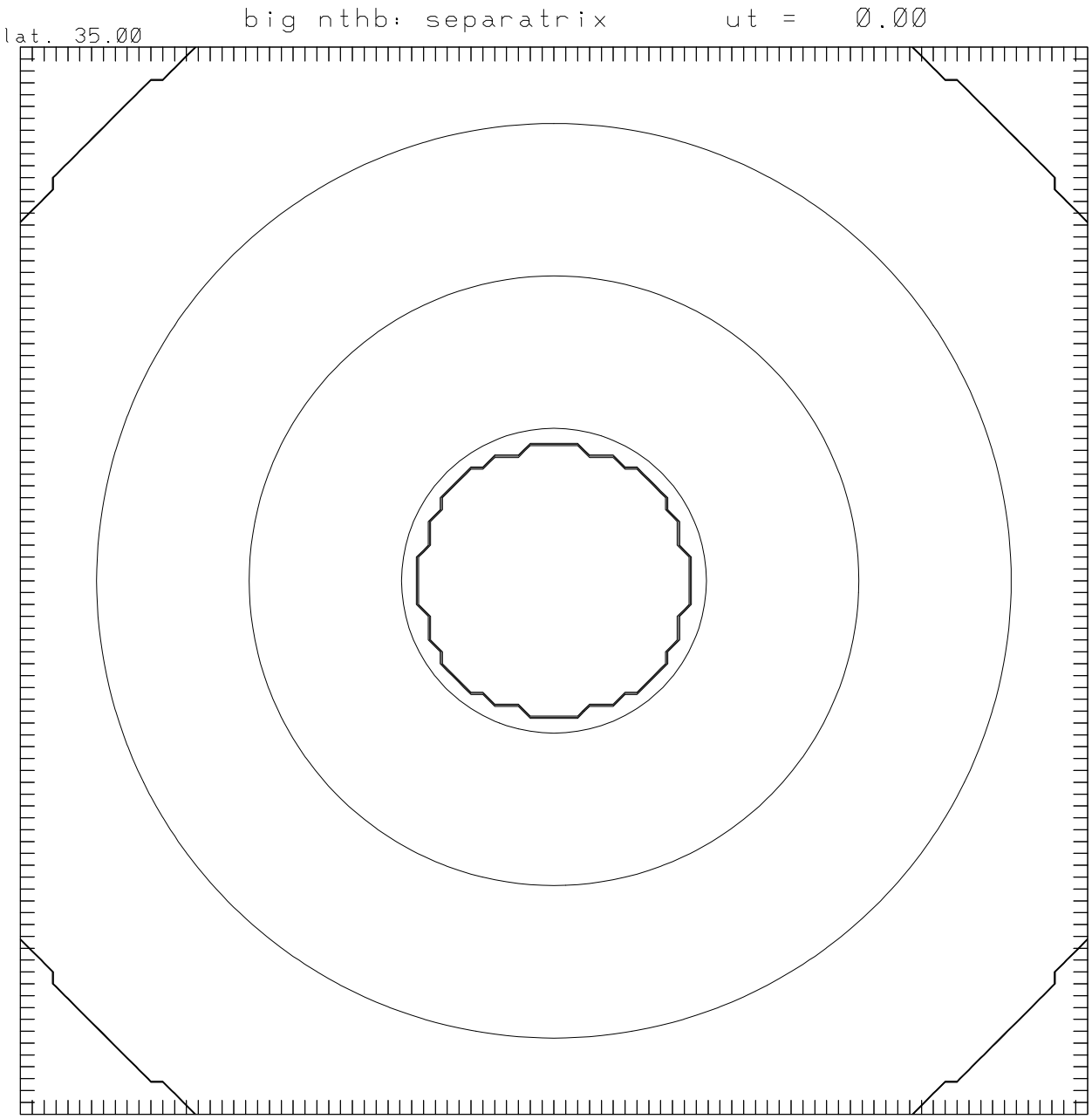
32., 0.,-23. -25., 0., 23.

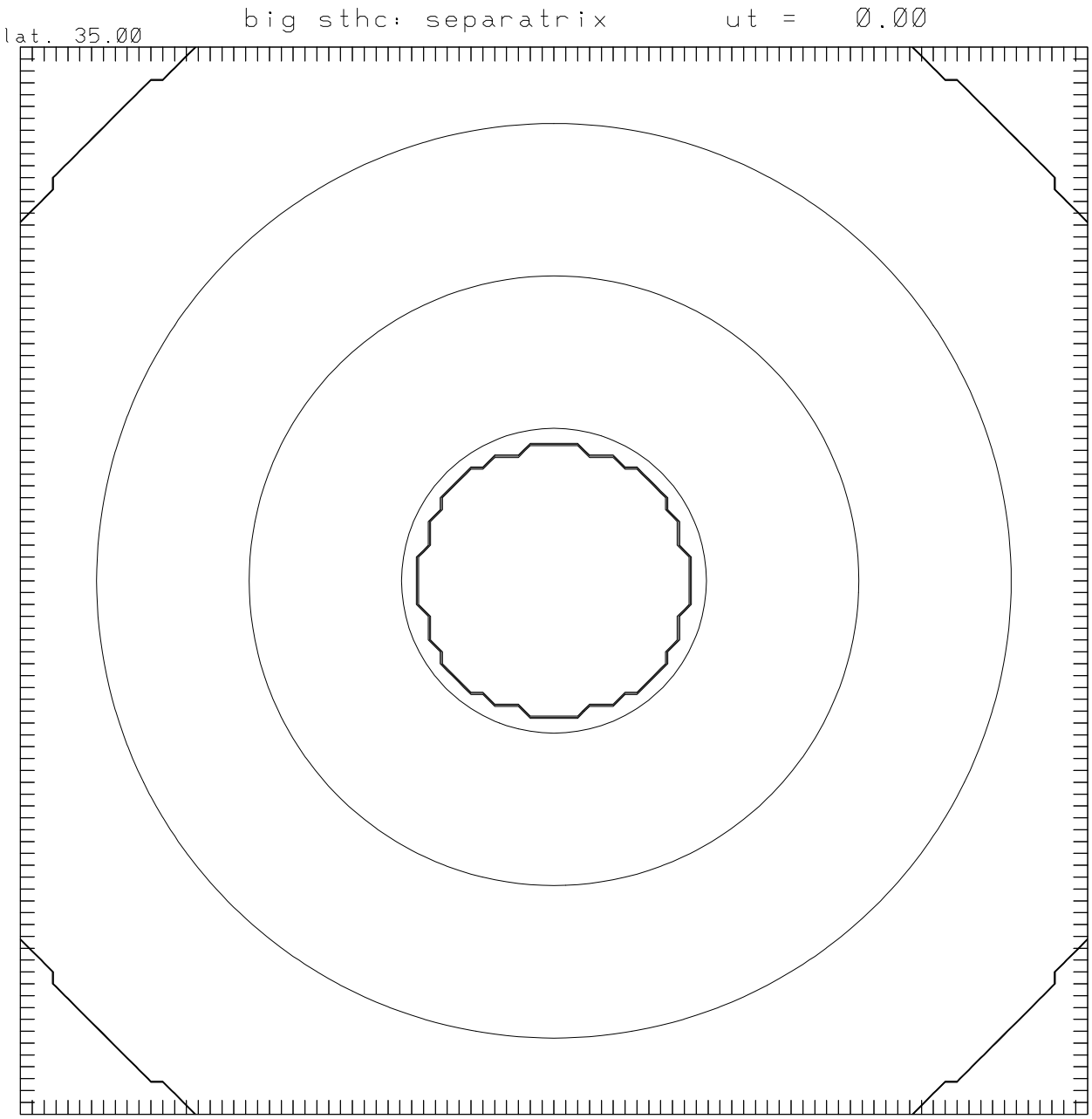


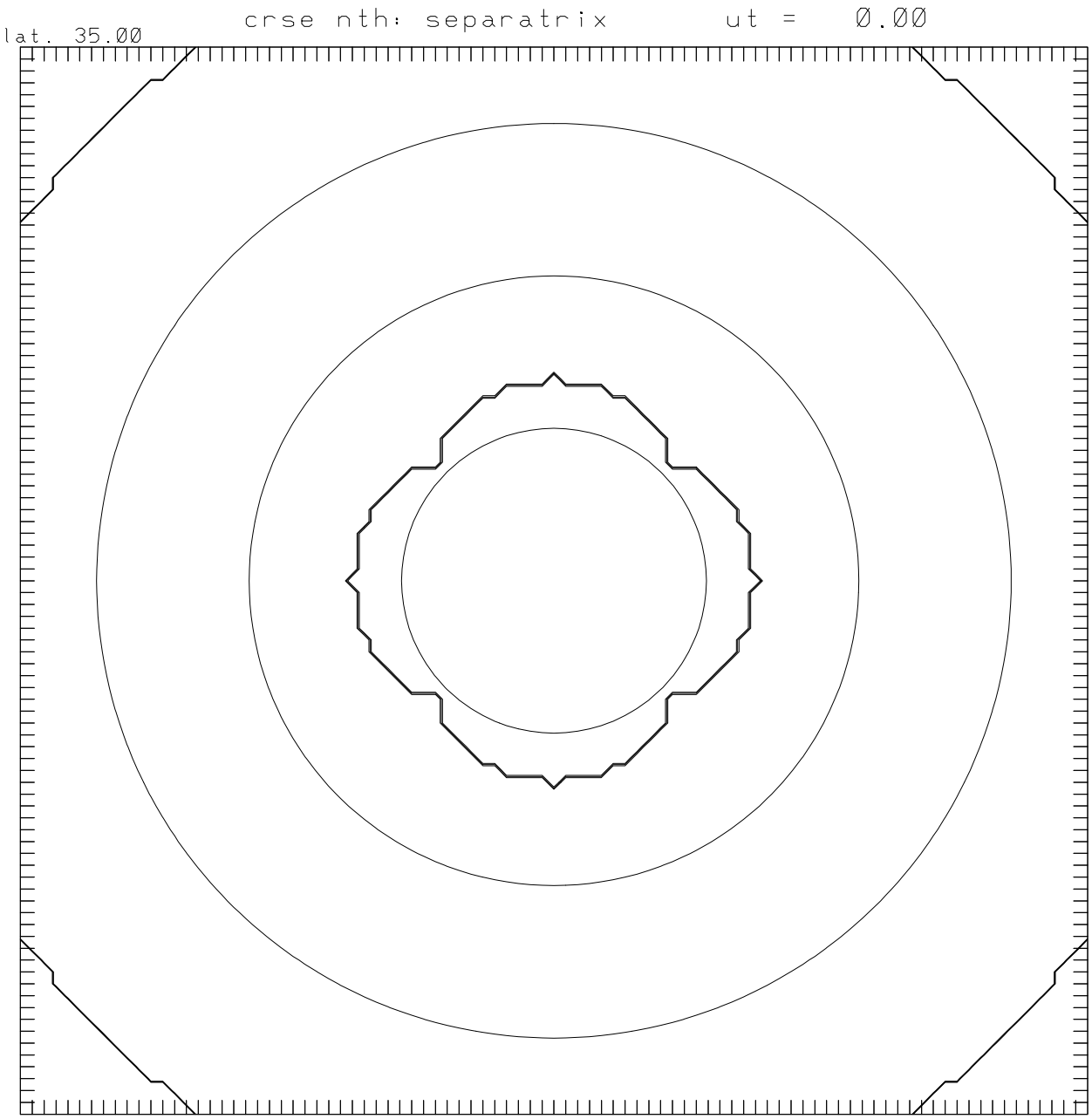

h den vo ut = 0.00
units min 0.00E+00 max 8.78E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

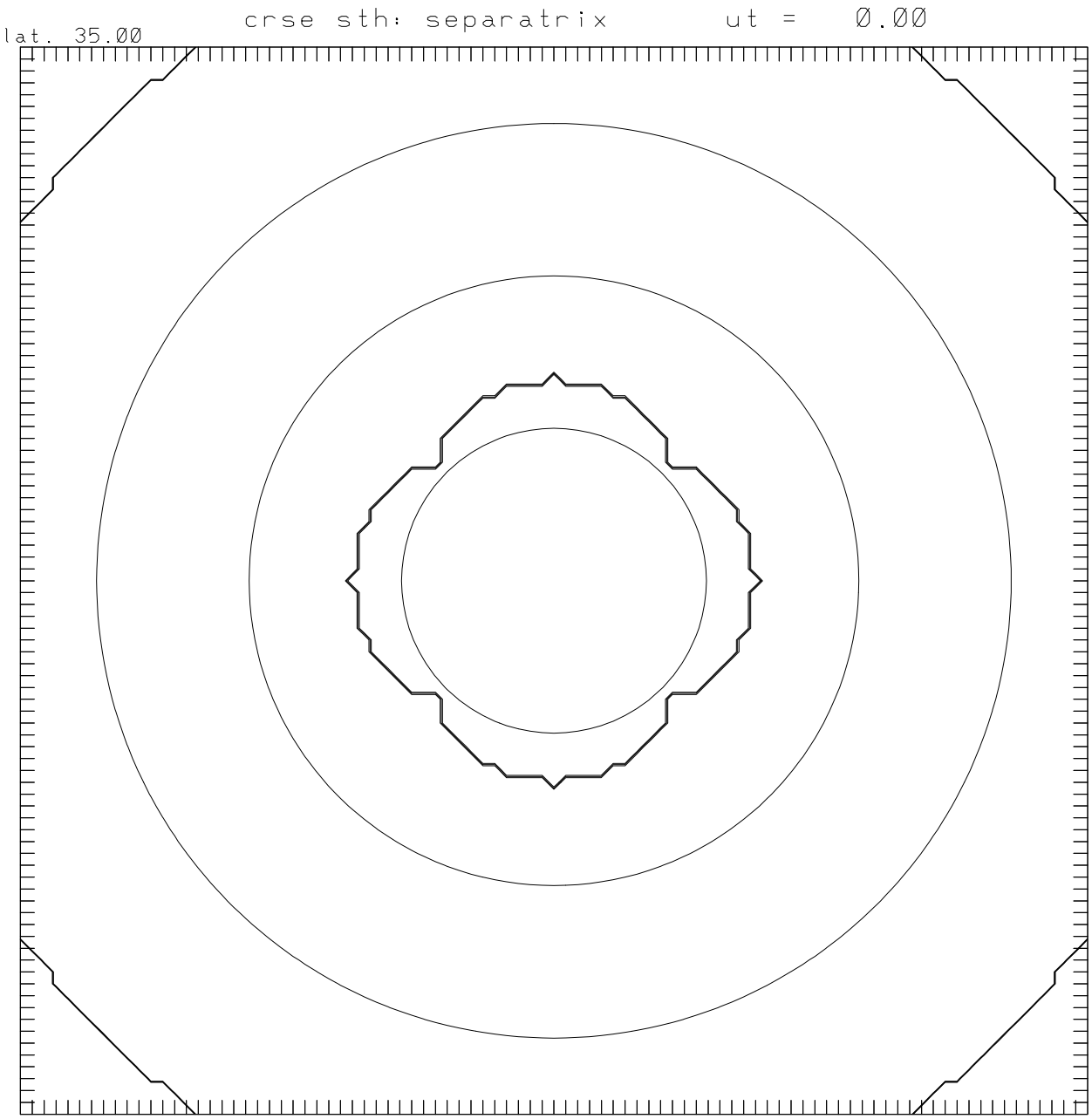

o den vt
ut = 0.00
units
min 0.00E+00
max 7.48E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

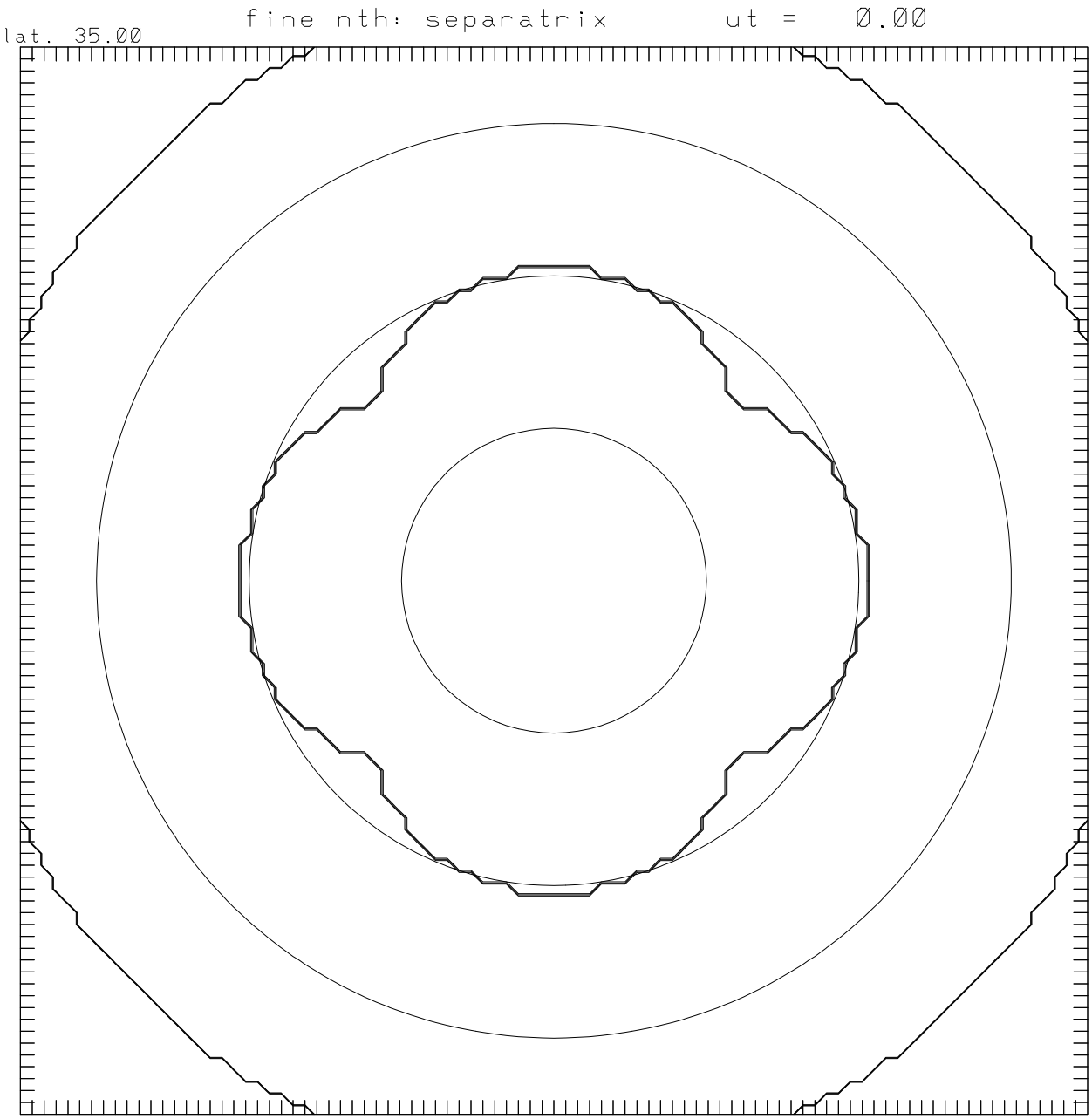

tden vbi
ut = 0.00
units
min 0.00E+00
max 8.80E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5

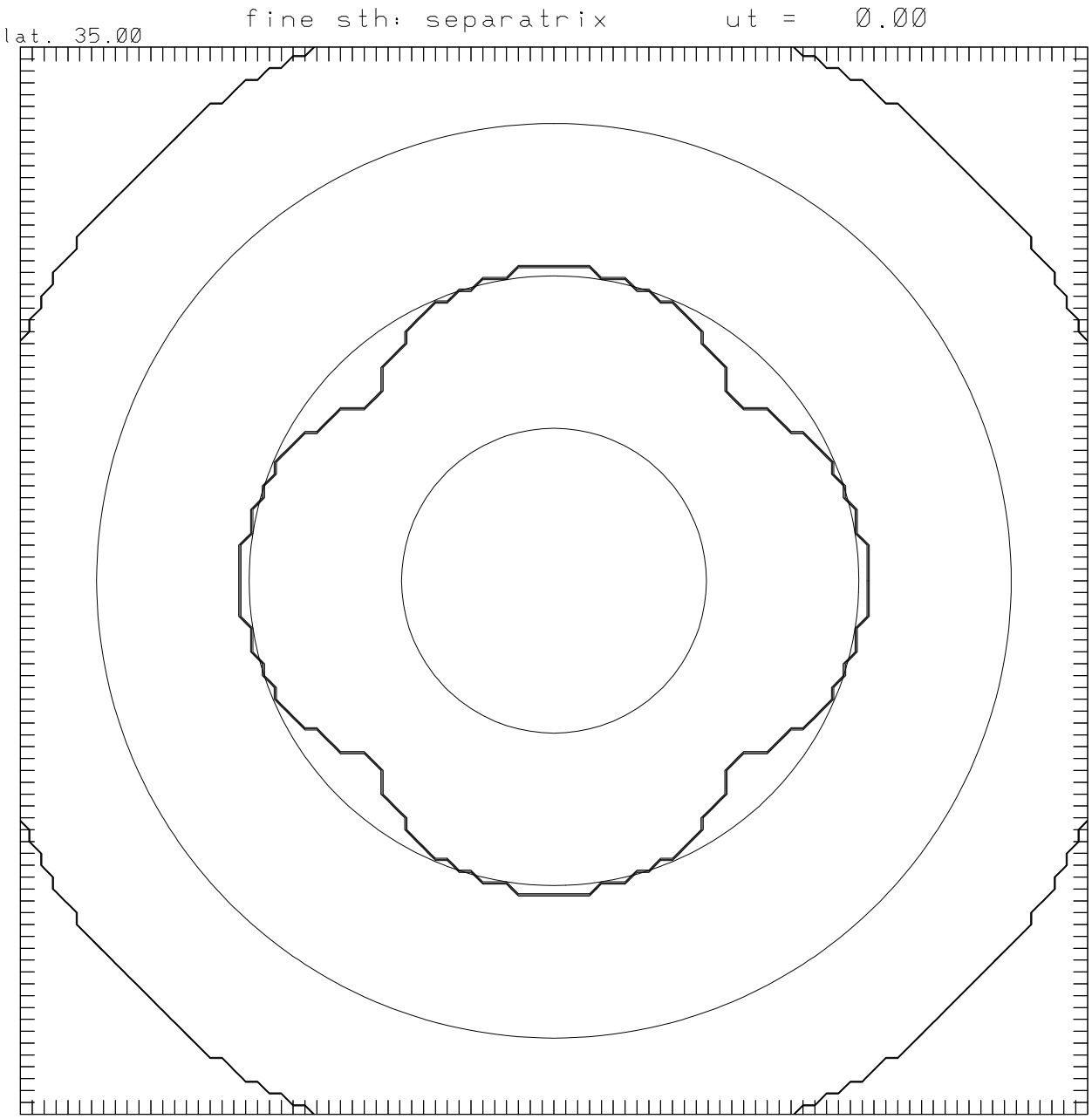

big nthb: separatrix ut = 0.00
lat. 35.00

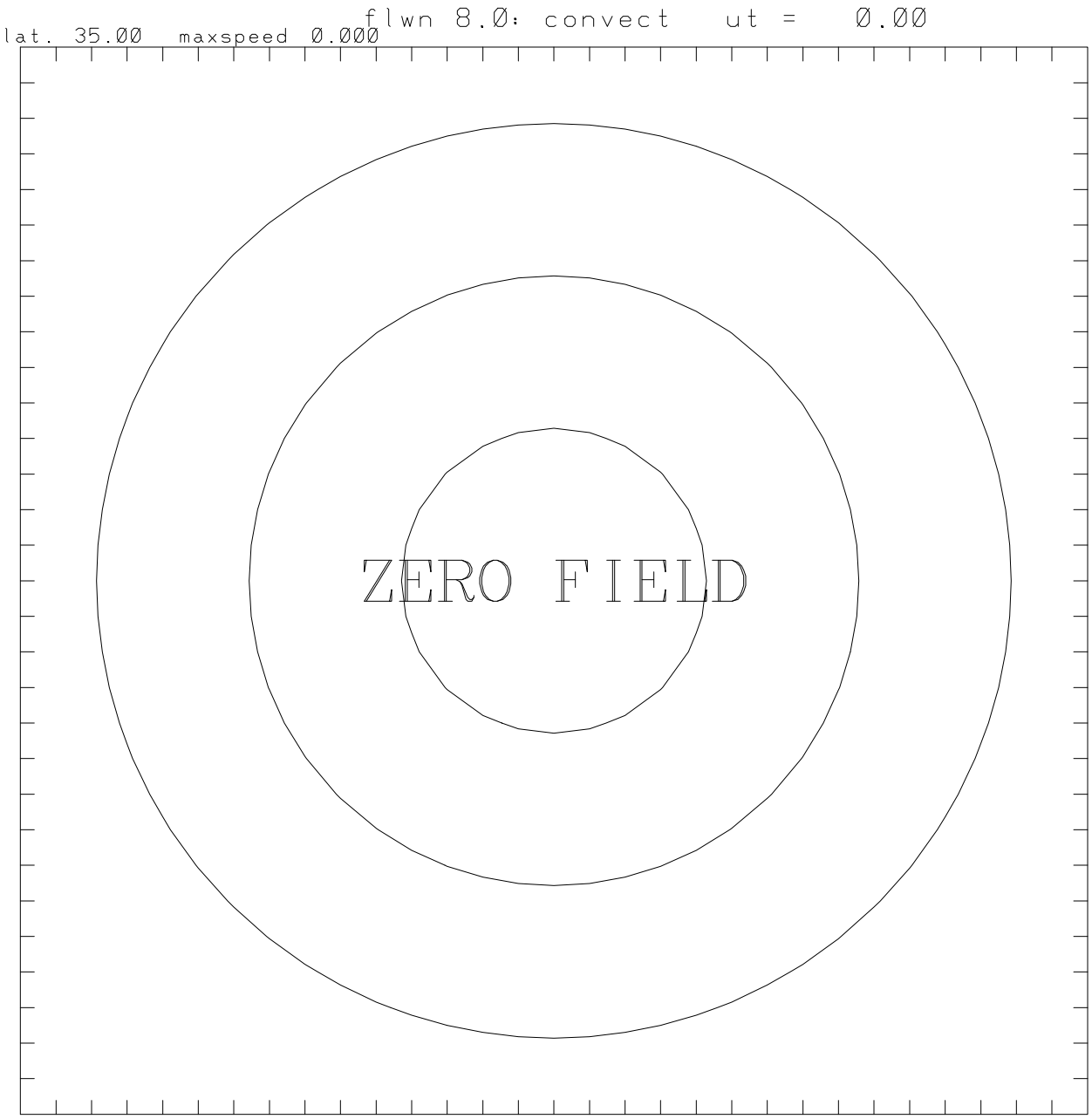

big sthc: separatrix ut = 0.00
lat. 35.00

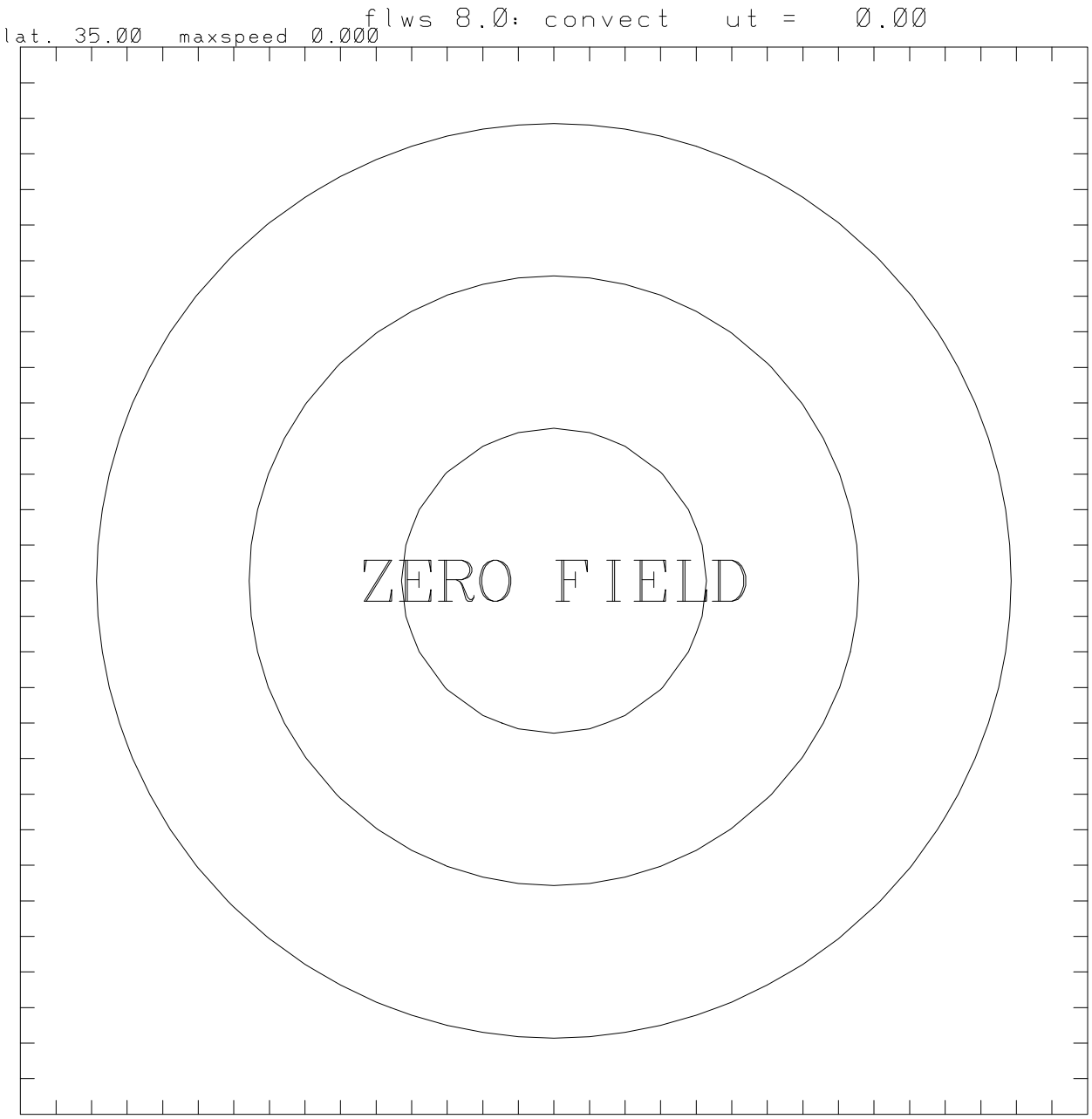

crse nth: separatrix
ut = 0.00
lat. 35.00

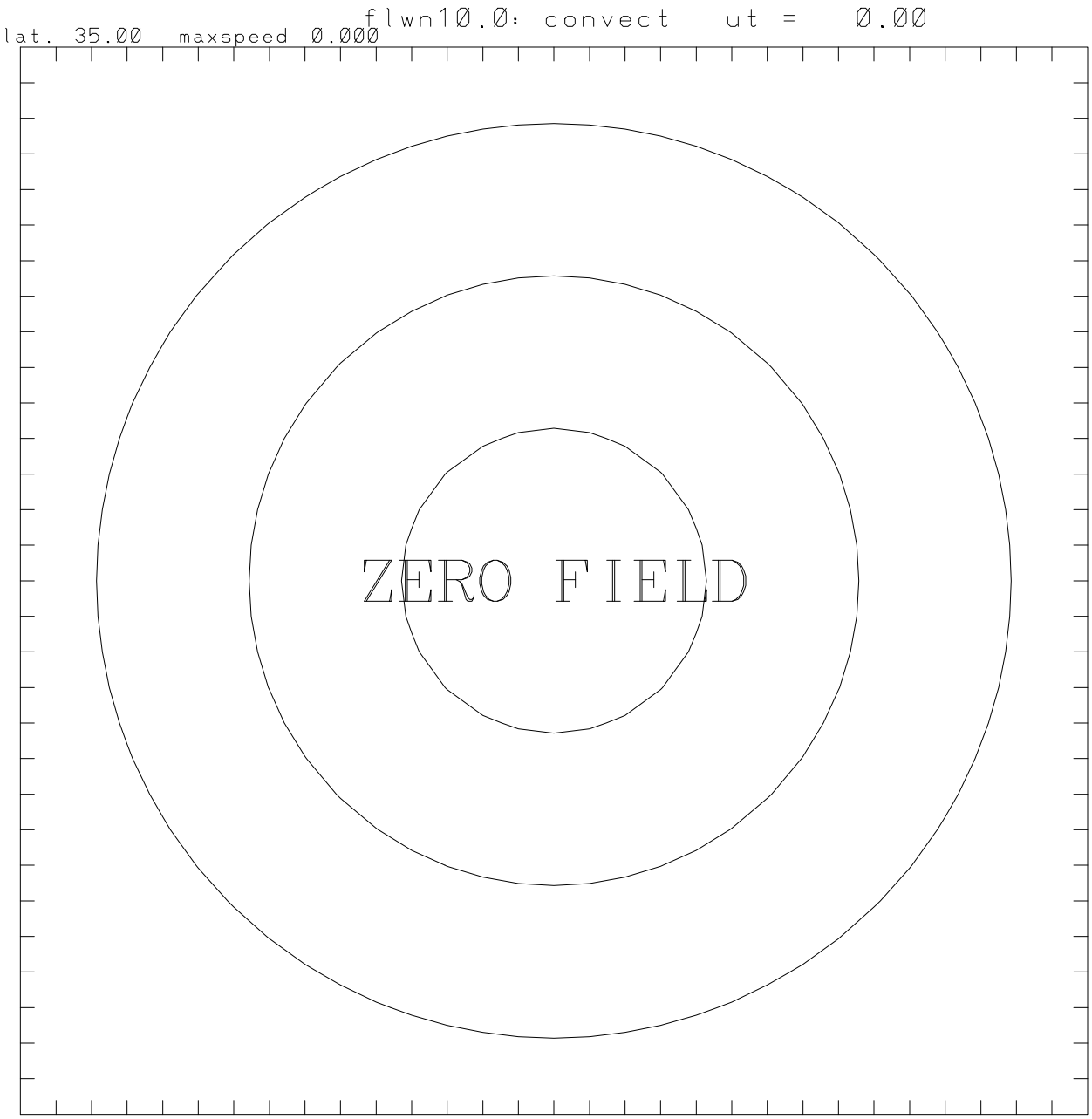

crse sth: separatrix ut = 0.00
lat. 35.00


fine nth: separatrix
ut = 0.00
lat. 35.00


fine sth: separatrix ut = 0.00
lat. 35.00

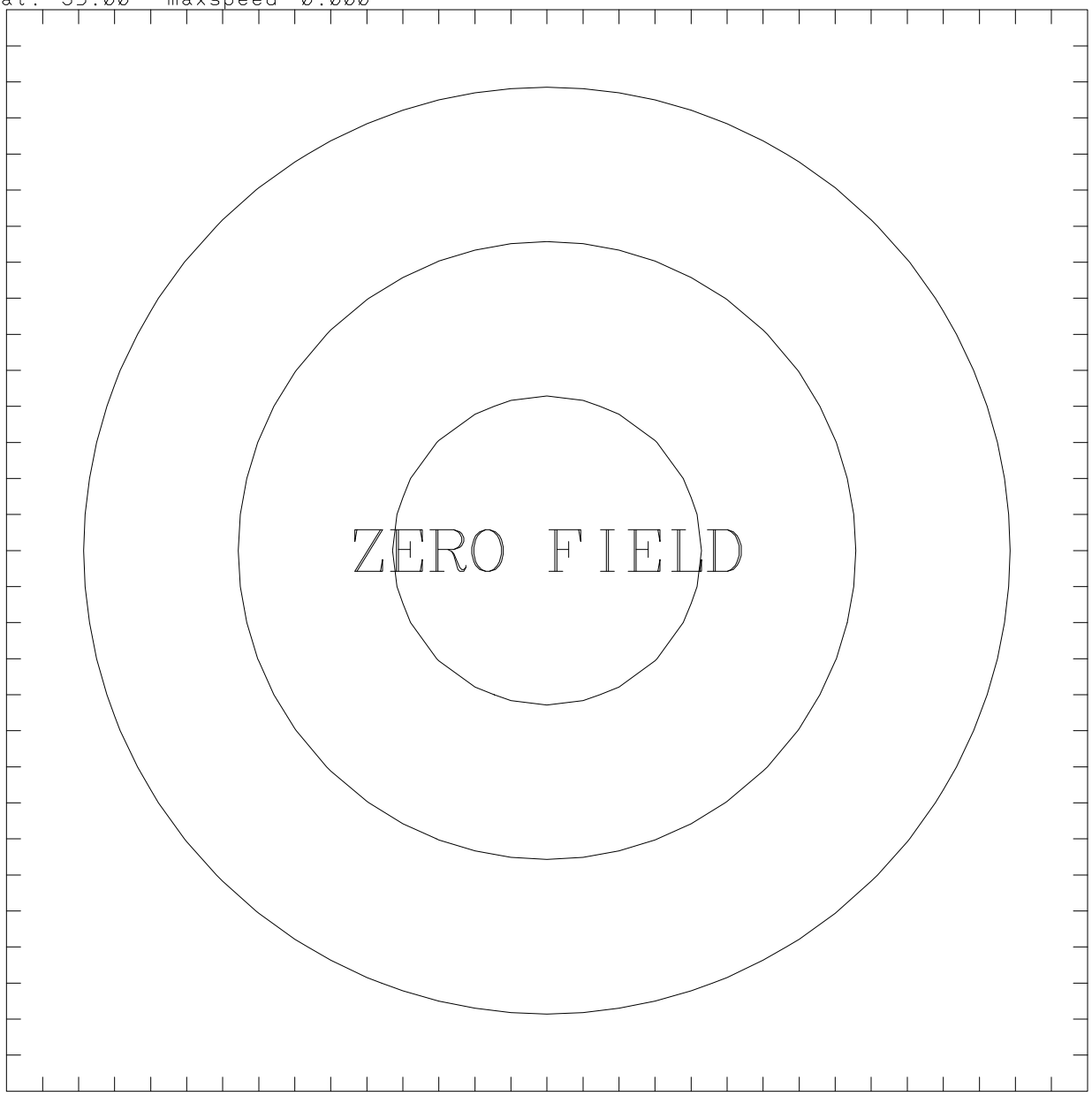

flwn 8.0: convect ut = 0.00
lat. 35.00 maxspeed 0.000
ZERO FIELD


flws 8.0: convect ut = 0.00
lat. 35.00 maxspeed 0.000
ZERO FIELD


flwn10.0: convect ut = 0.00
lat. 35.00 maxspeed 0.000
ZERO FIELD

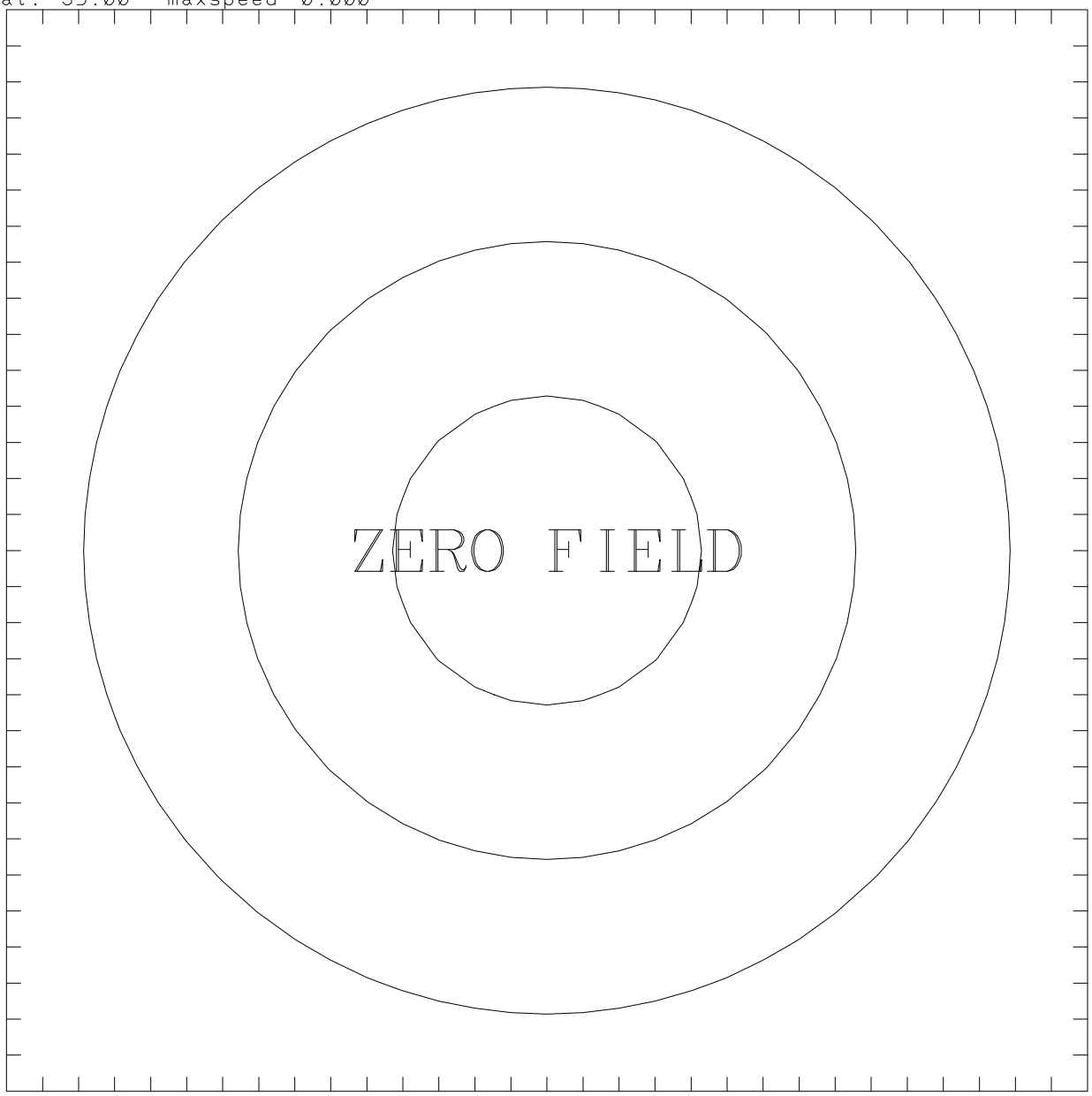
flws10.0: convect ut = 0.00

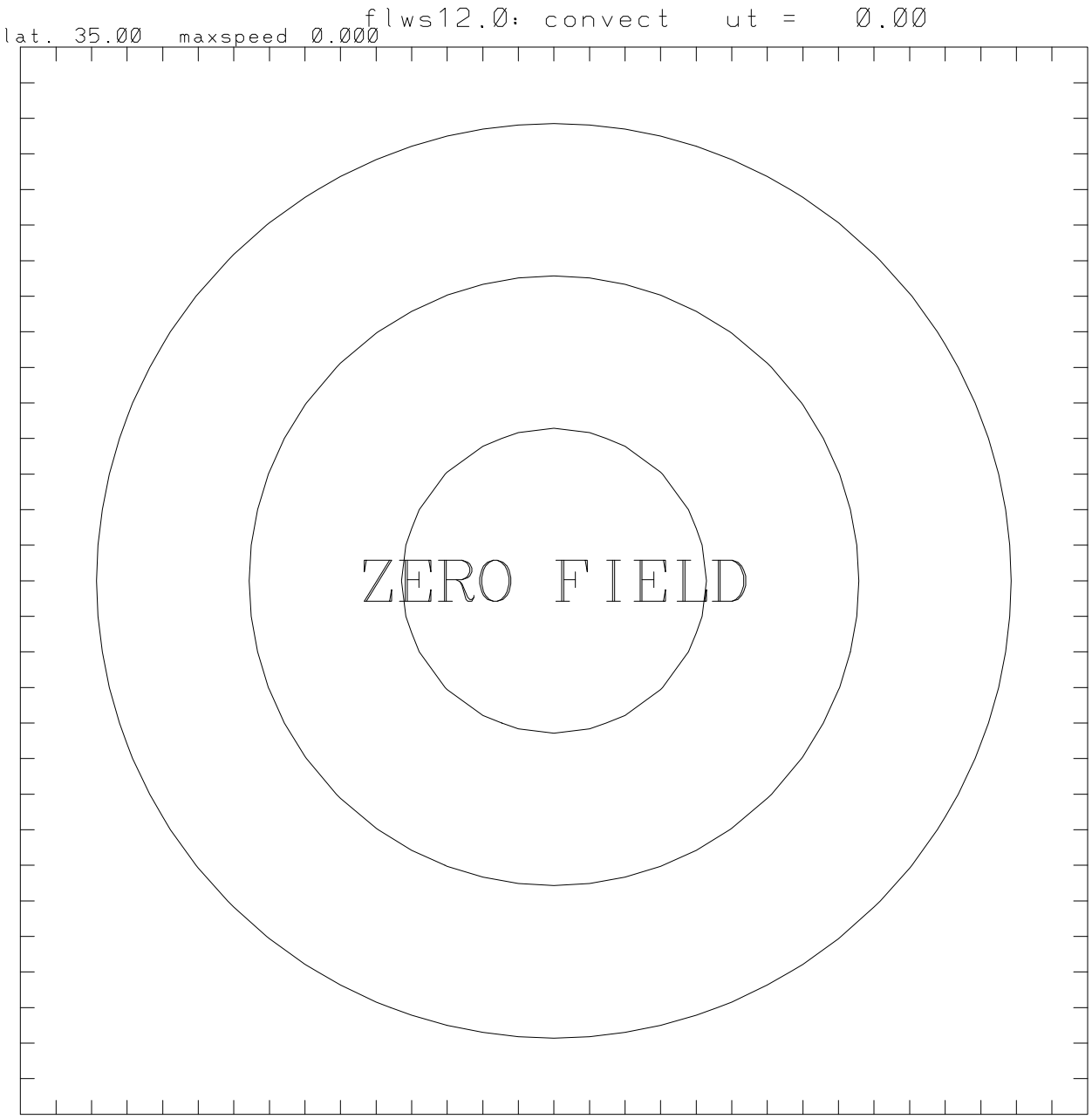
lat. 35.00 maxspeed 0.000



flwn12.0: convect ut = 0.00

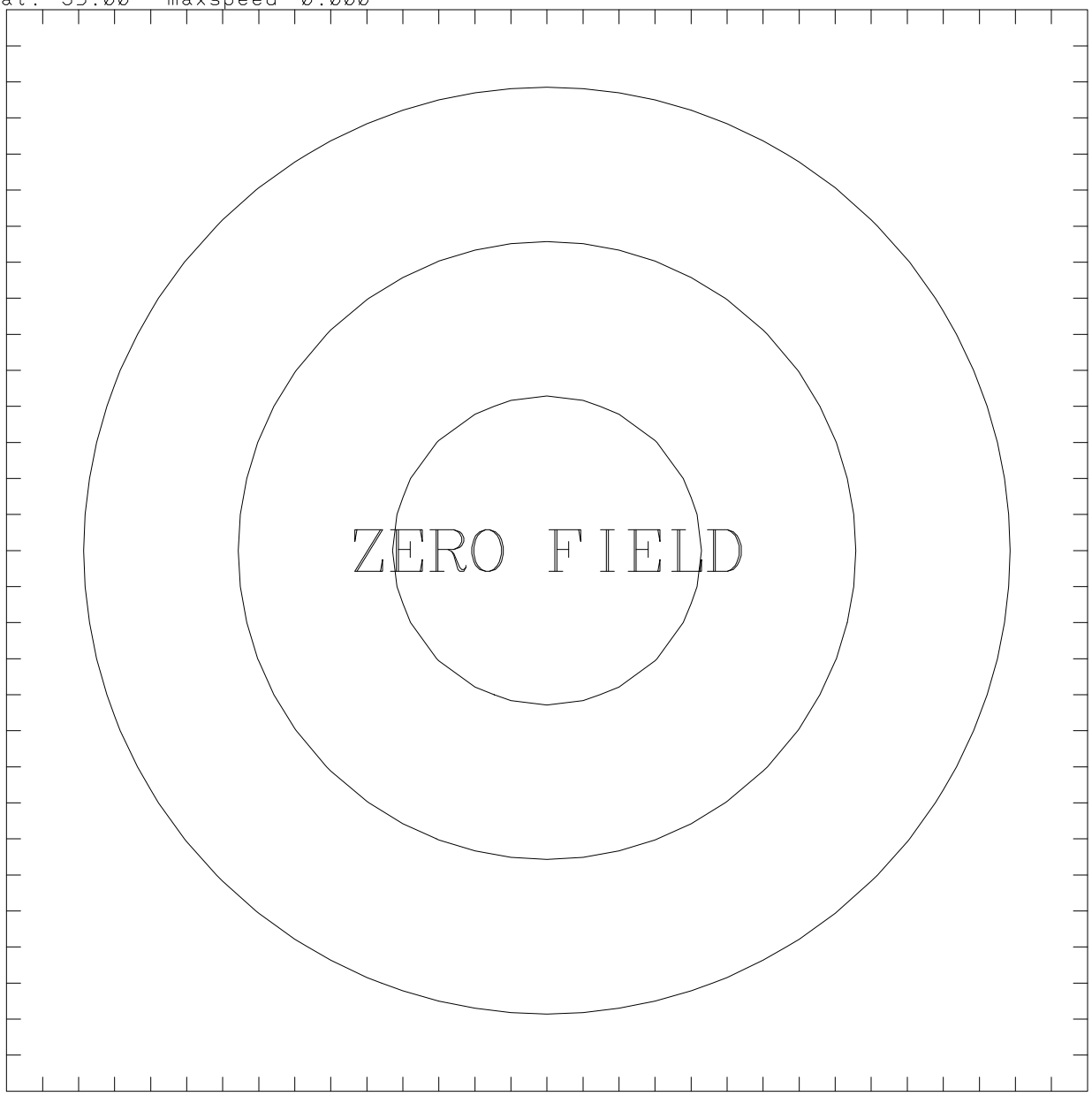
lat. 35.00 maxspeed 0.000

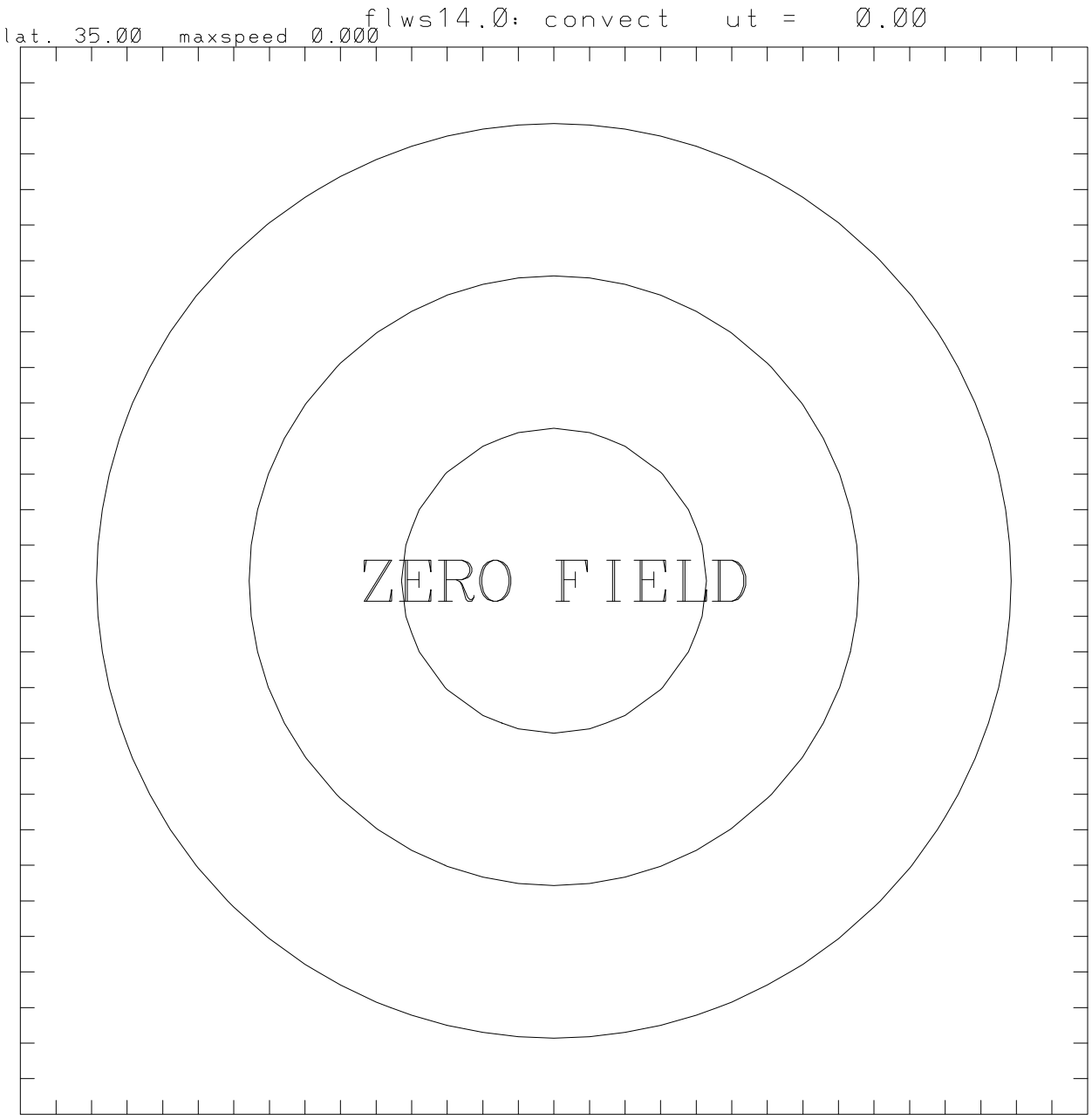


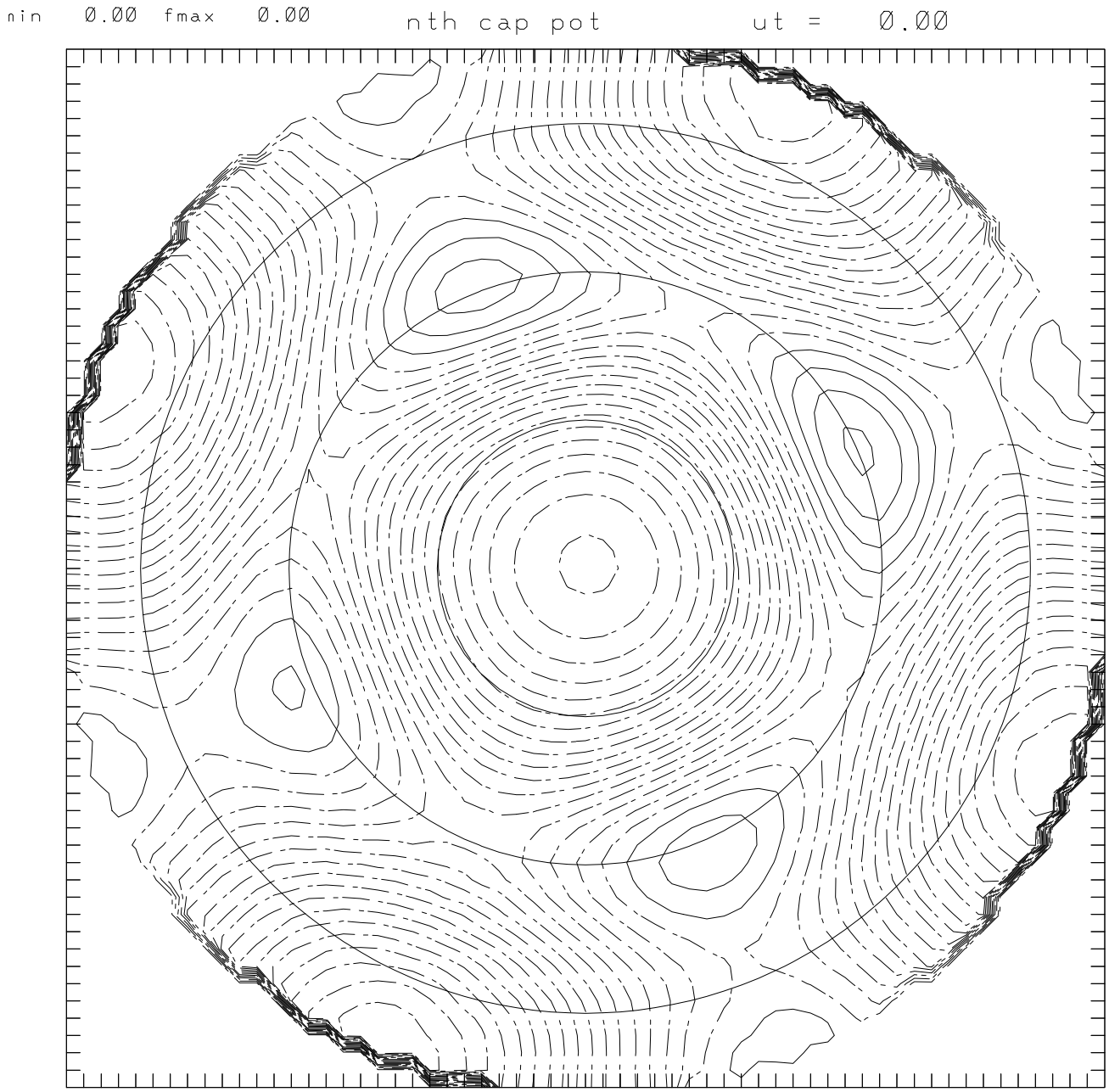

flws12.0: convect ut = 0.00
lat. 35.00 maxspeed 0.000
ZERO FIELD

flwn14.0: convect ut = 0.00

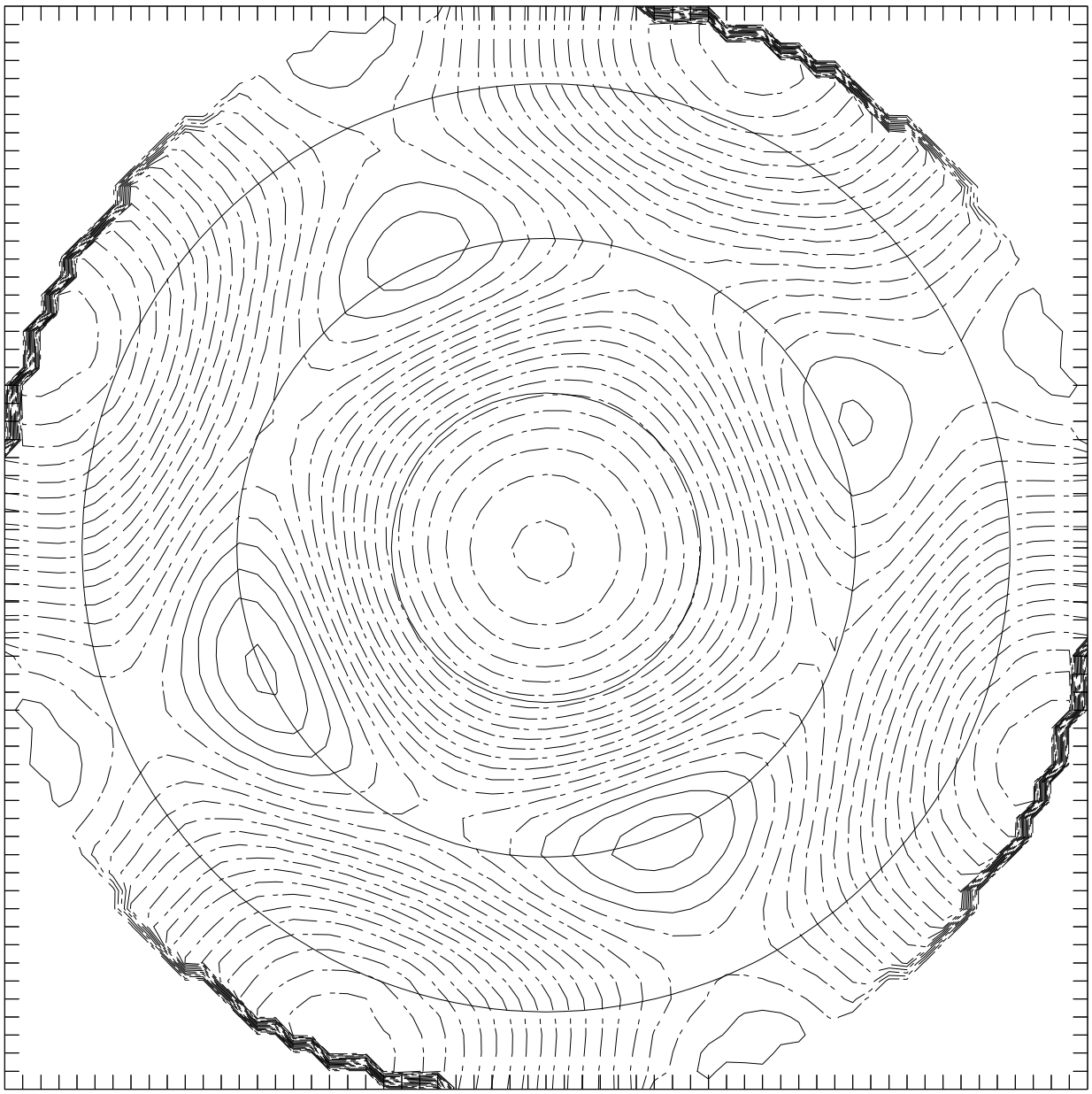
lat. 35.00 maxspeed 0.000




flws14.0: convect ut = 0.00
lat. 35.00 maxspeed 0.000
ZERO FIELD


min 0.00 fmax 0.00
nth cap pot
ut = 0.00

min 0.00 fmax 0.00 sth cap pot ut = 0.00



min 0.0000 fmax 0.0000
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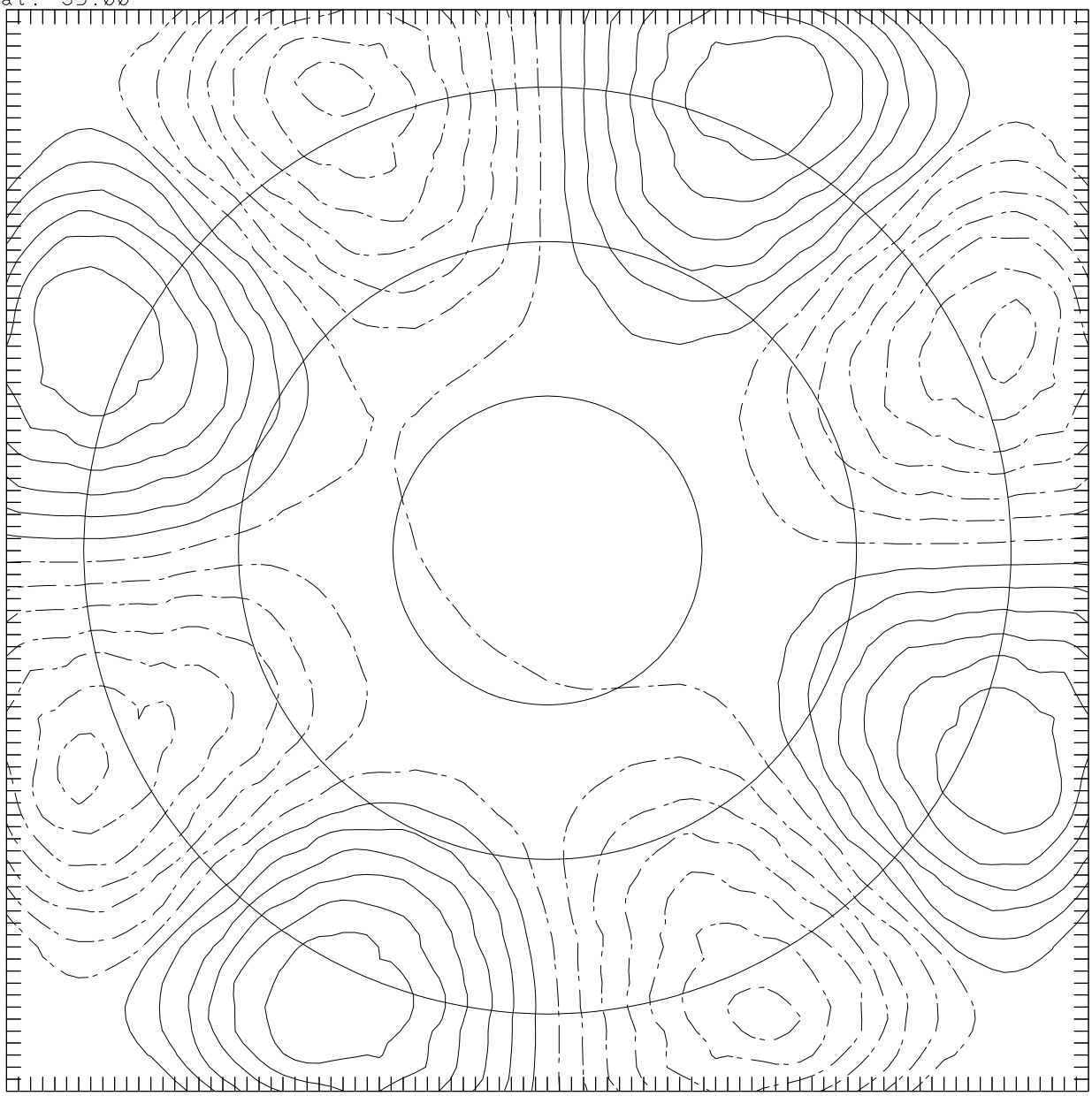
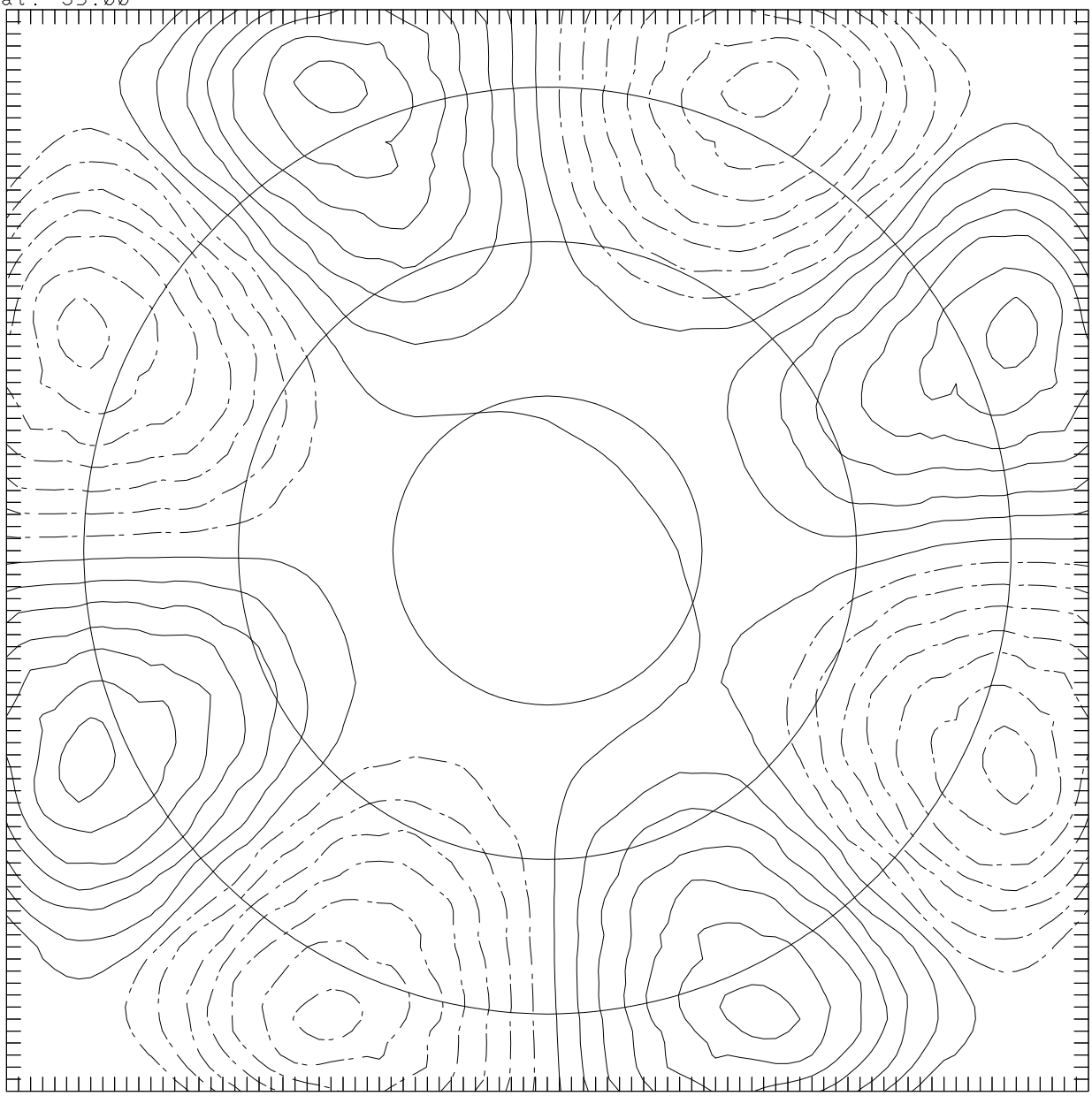
cur4 nth: aurora ut = 0.00



min 0.0000 fmax 0.0000
lat. 35.00

cur4 sth: aurora ut = 0.00



min 0.0000 fmax 0.0000
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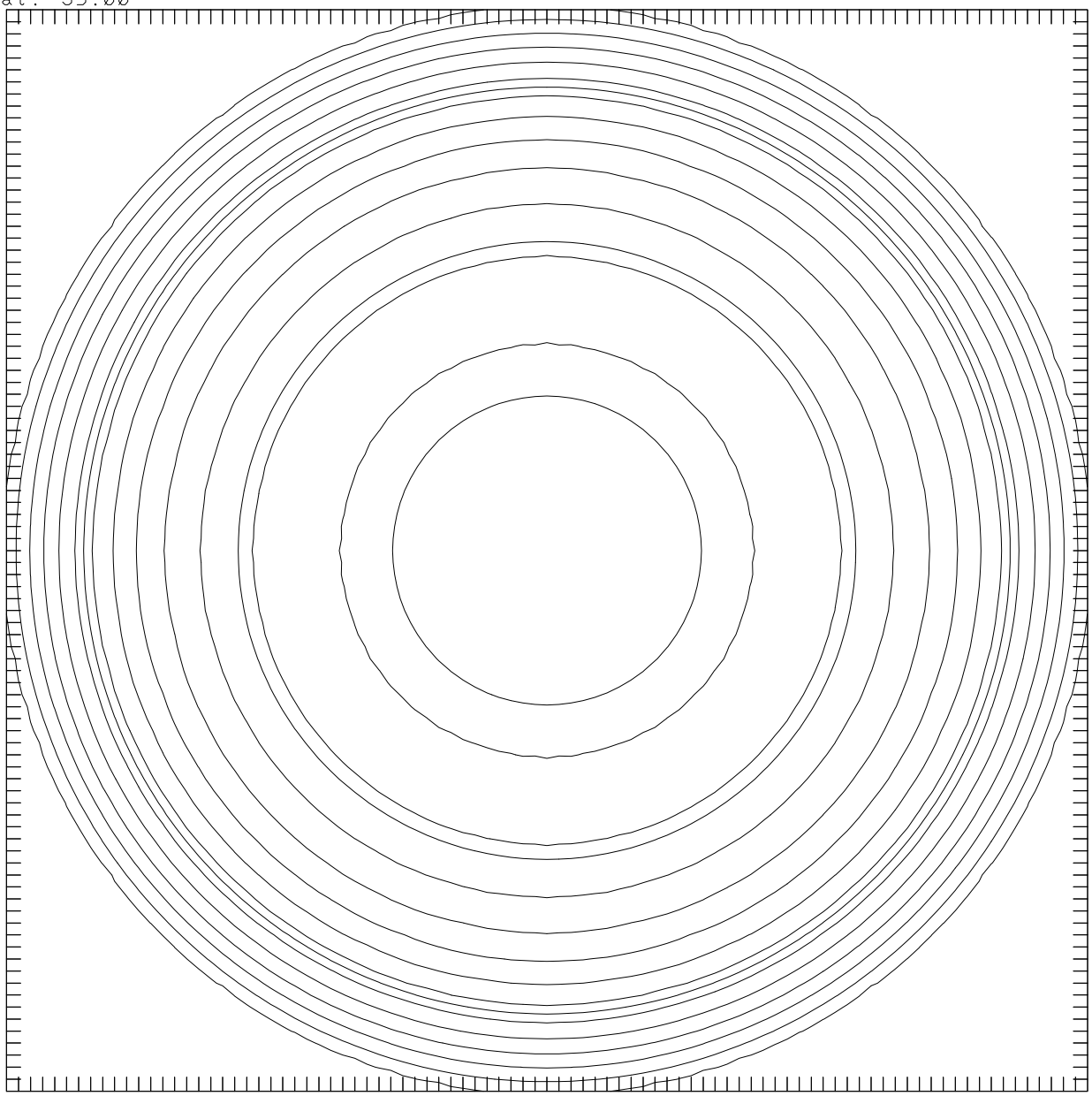

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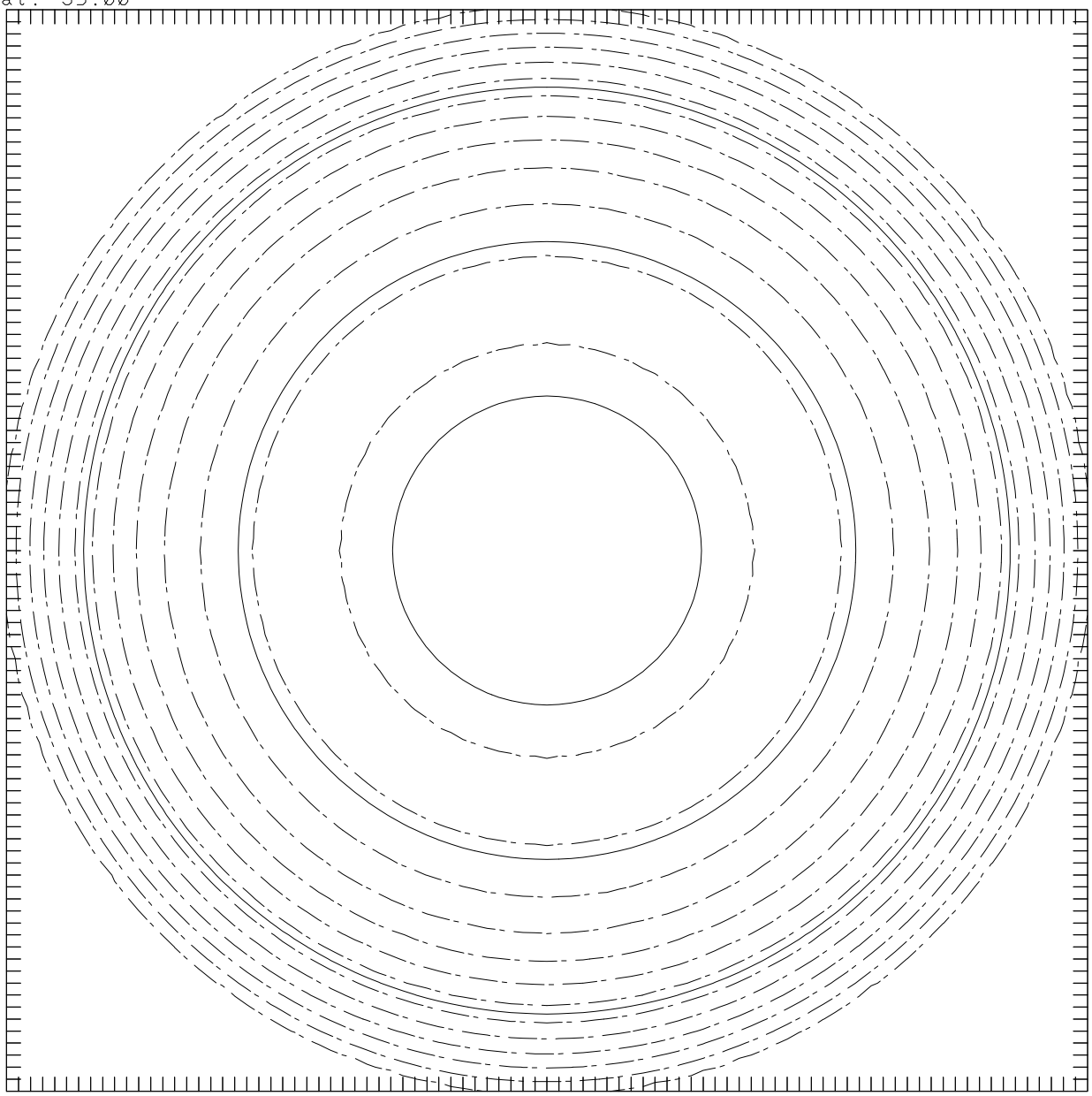

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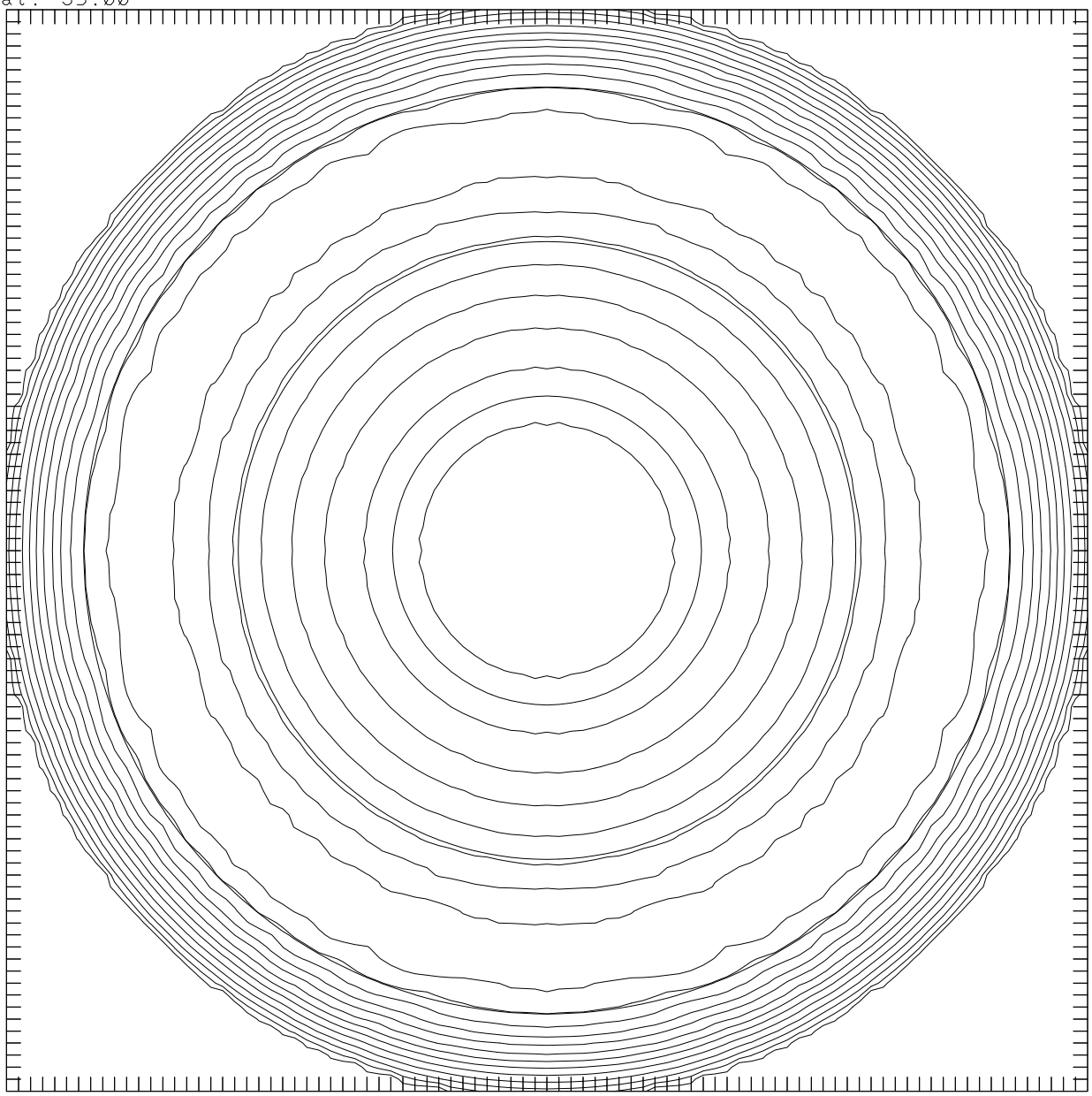
hfluxnth: aurora ut = 0.00



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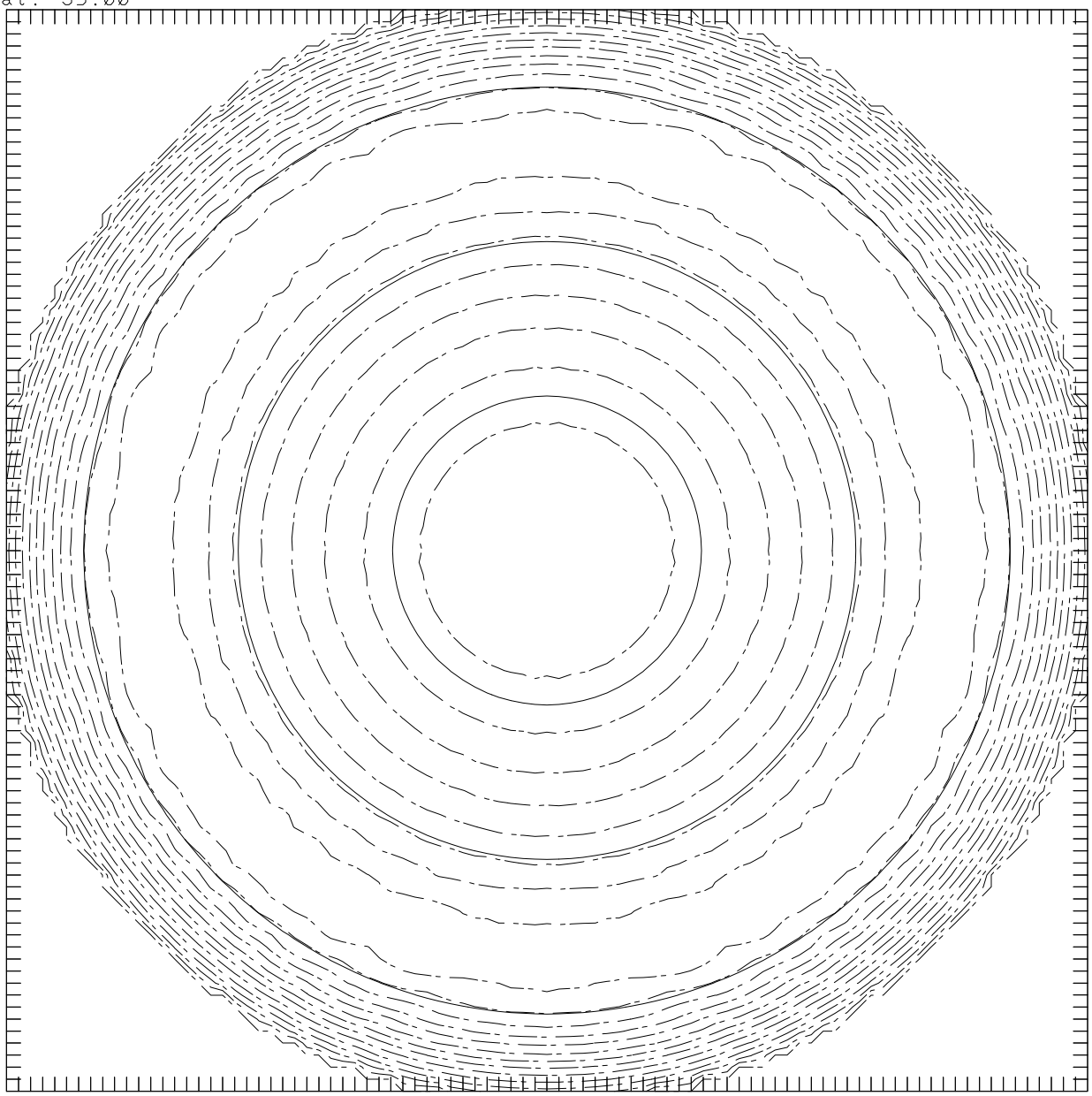
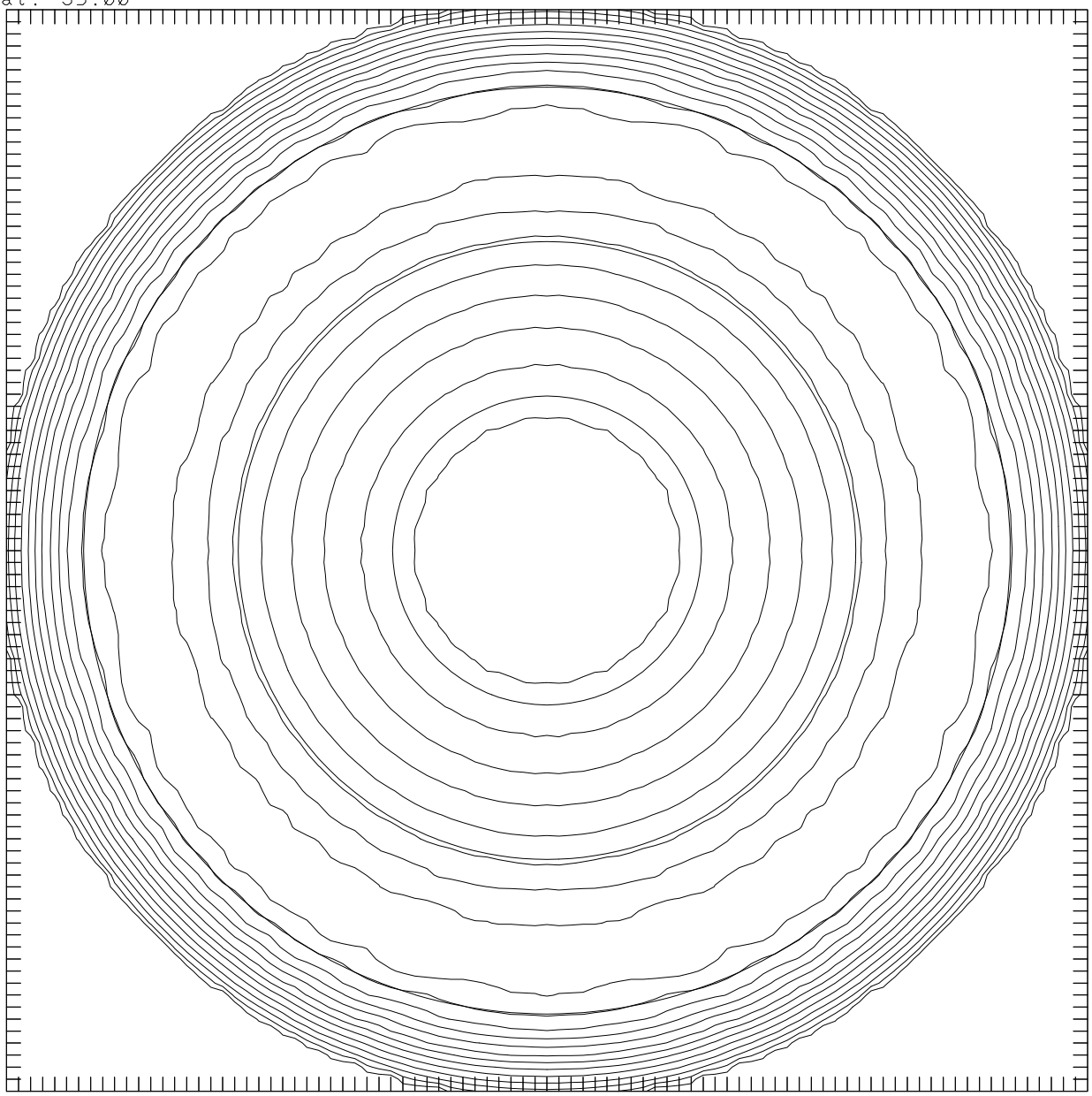


min 0.0000 fmax 0.0000
lat. 35.00

ofluxnth: aurora ut = 0.00



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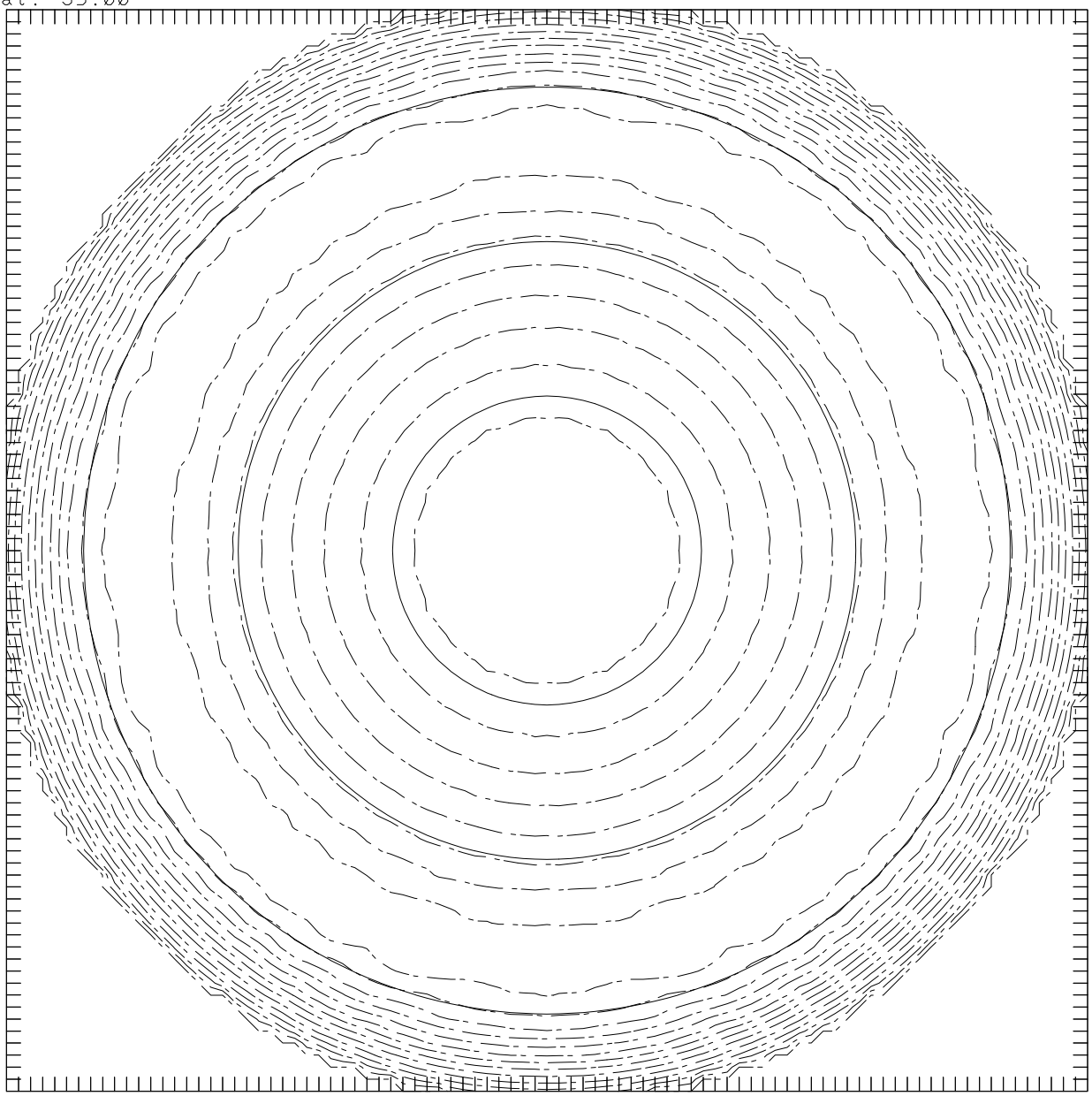
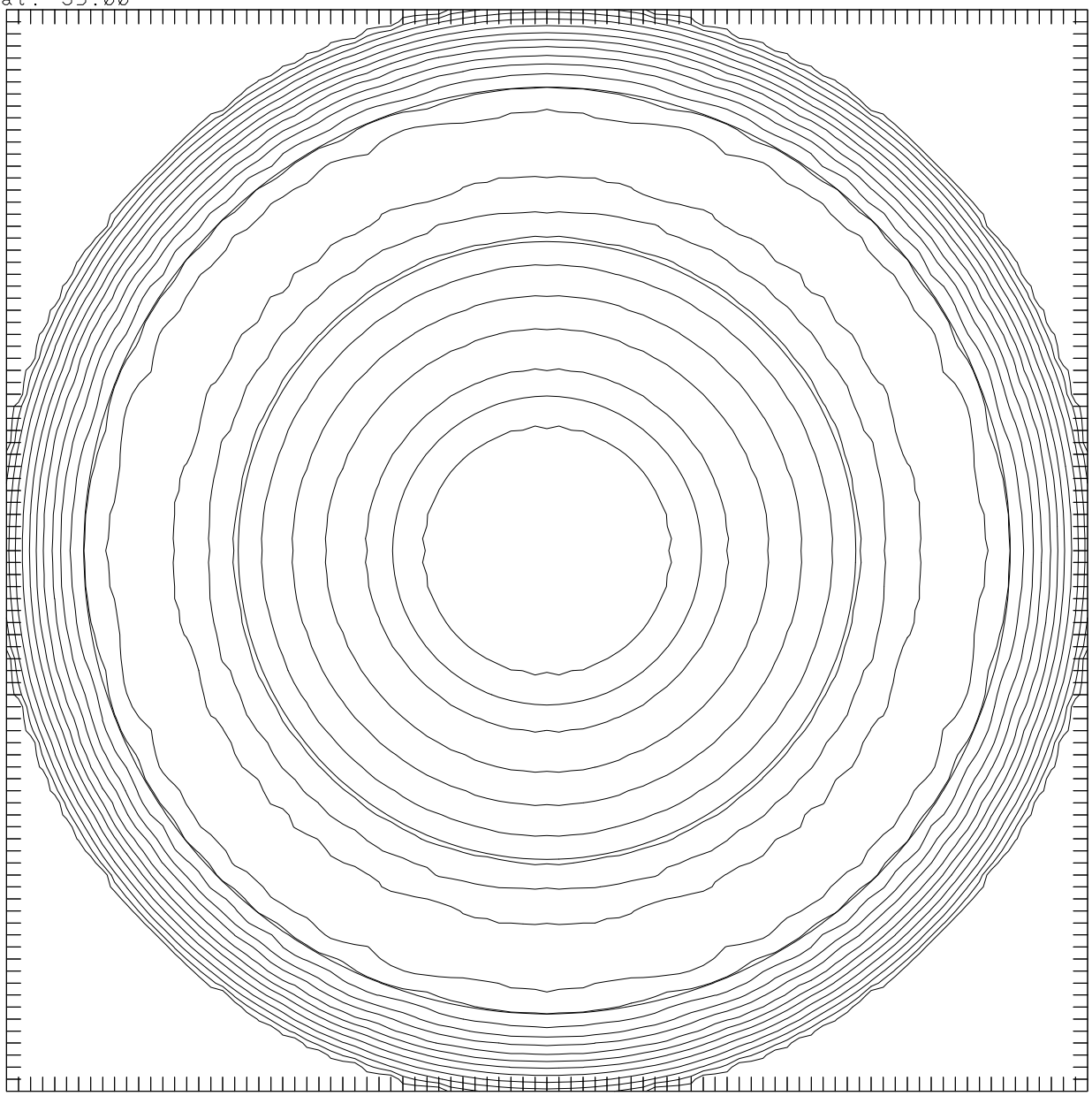


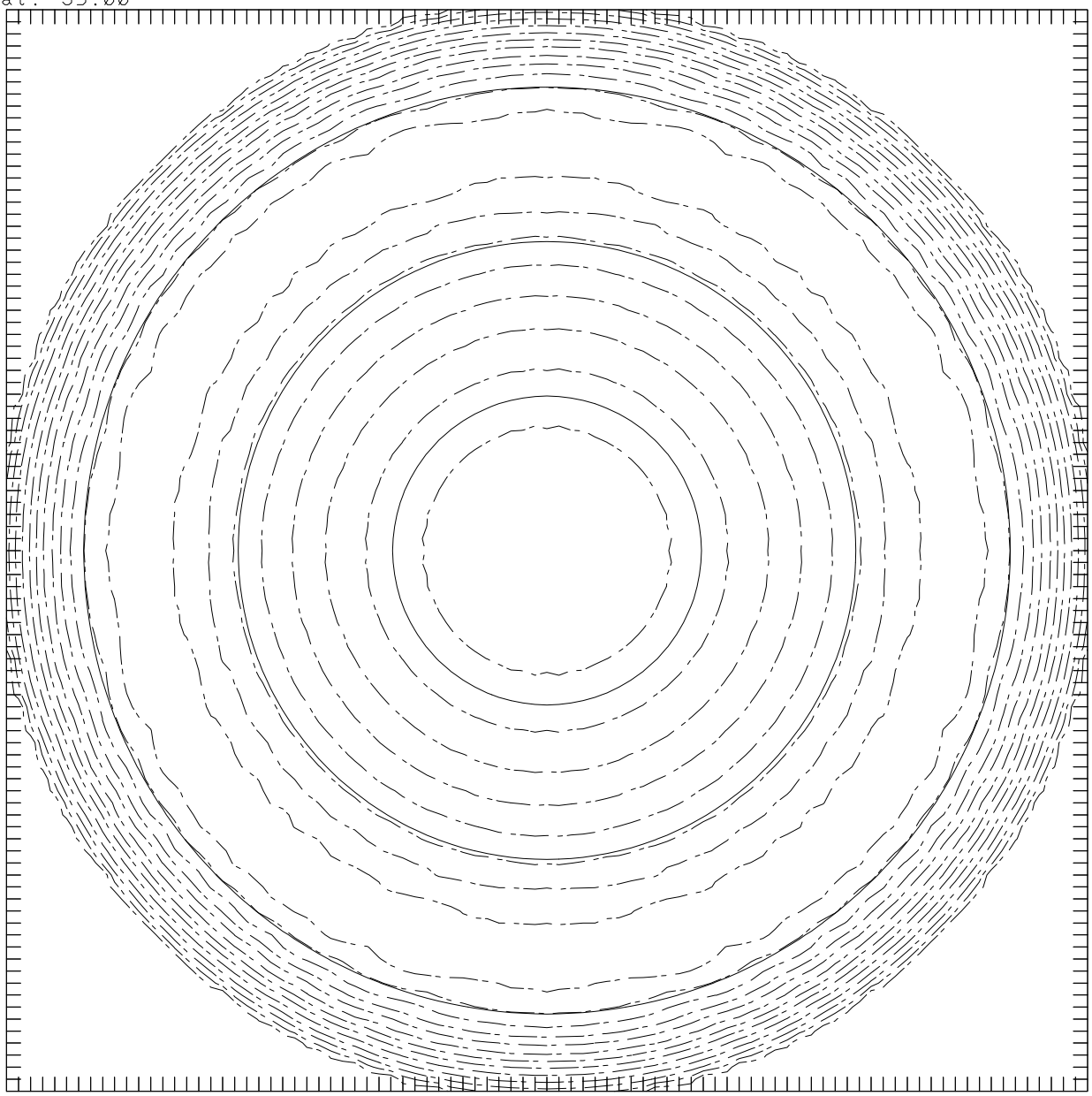
min 0.0000 fmax 0.0000
lat. 35.00

efluxnth: aurora ut = 0.00



min 0.0000 fmax 0.0000
lat. 35.00

efluxsth: aurora ut = 0.00



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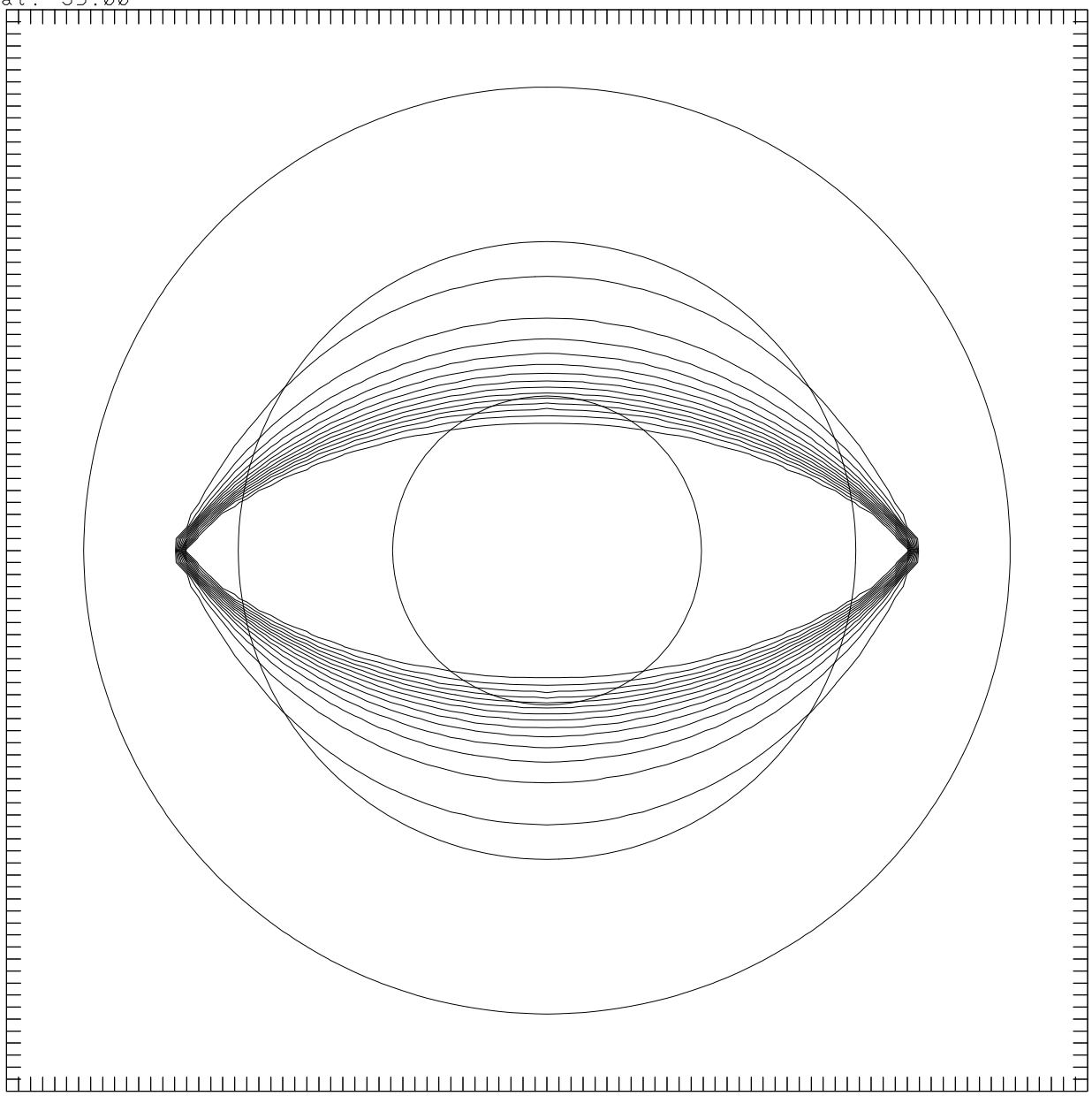
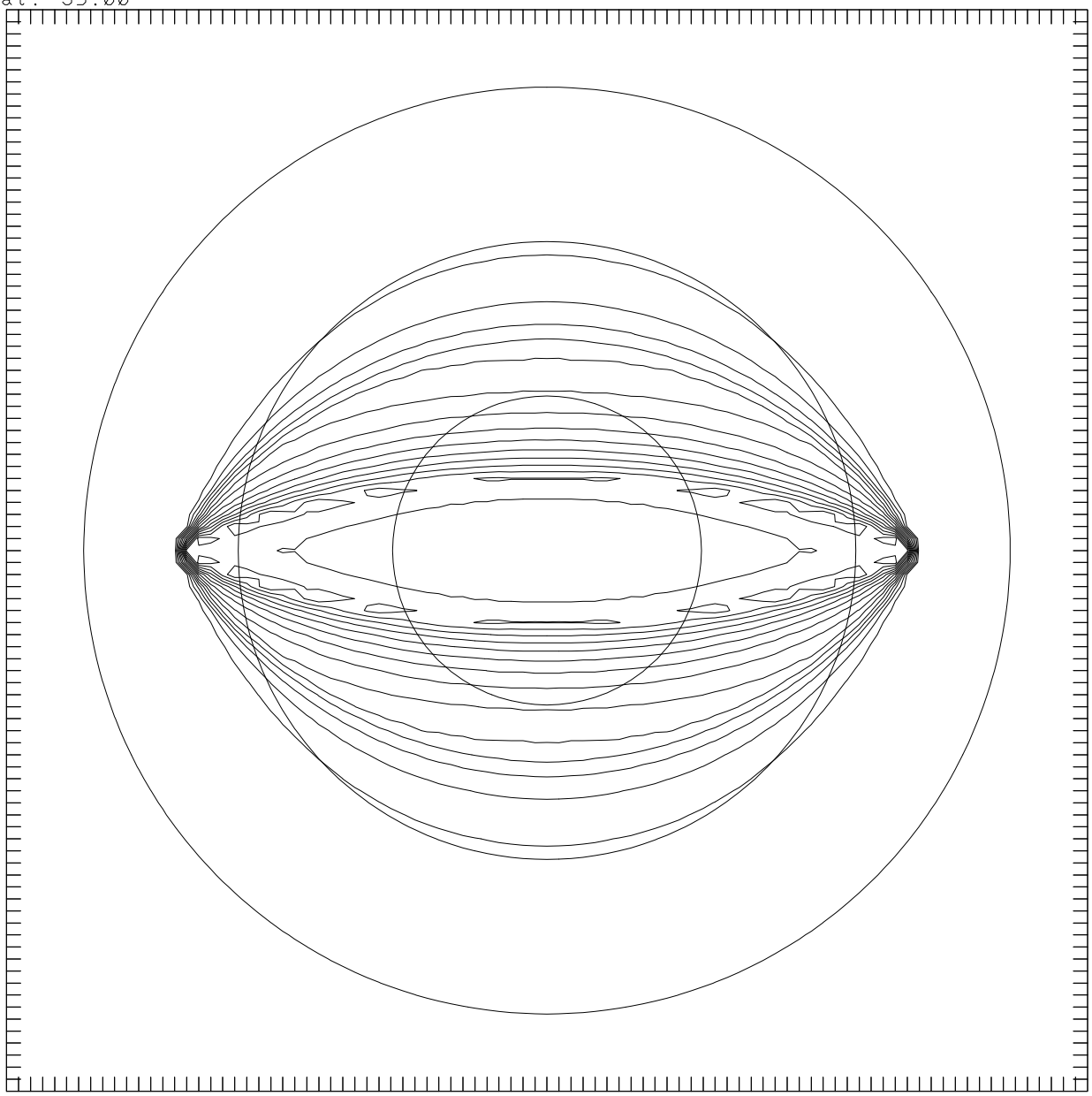
lat. 35.00

itempnth: intensity ut = 0.00



min 0.0000 0.0000
lat. 35.00

itempsth: intensity ut = 0.00



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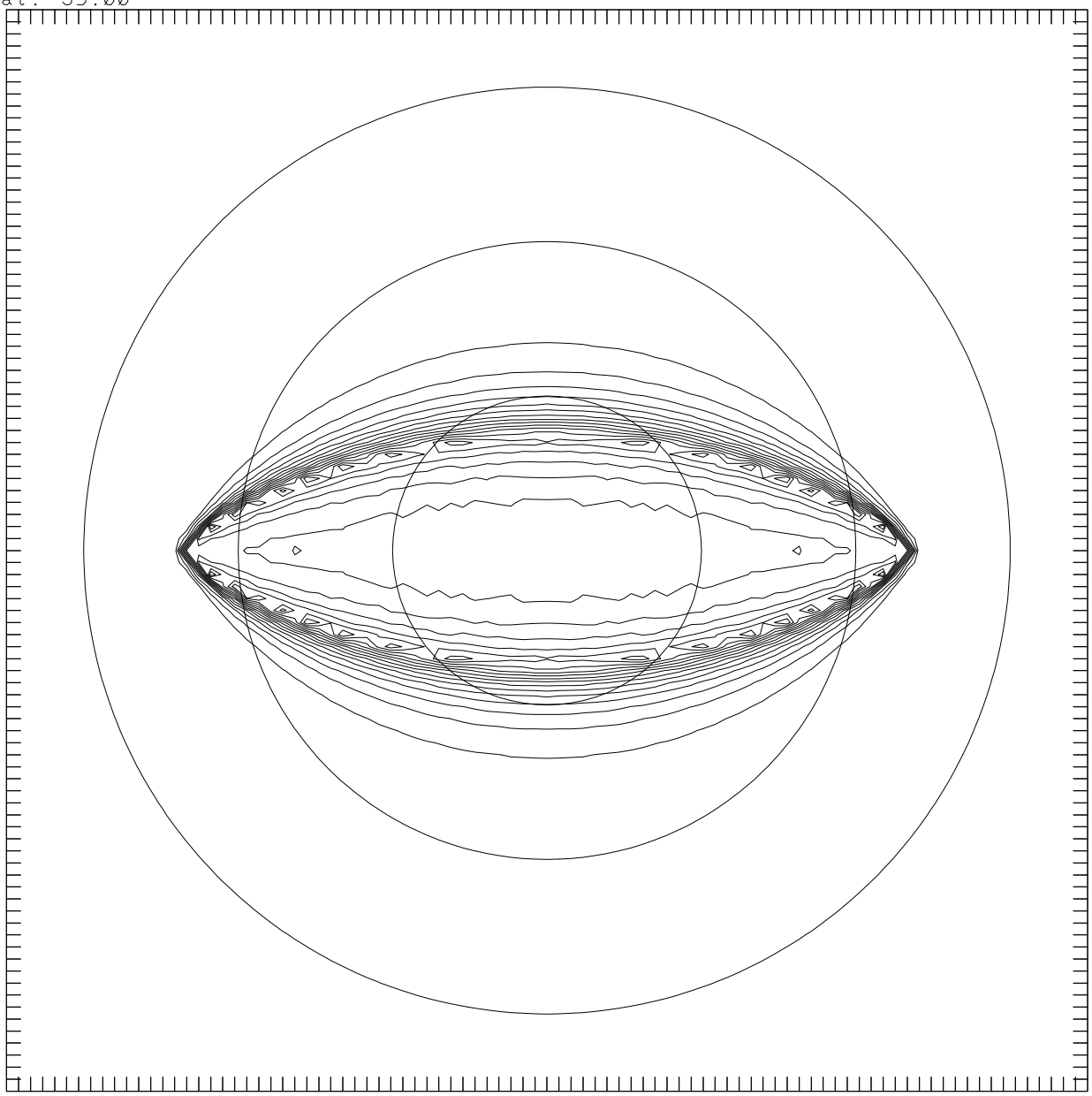
lat. 35.00

otempnth: intensity ut = 0.00



min 0.0000 0.0006
lat. 35.00

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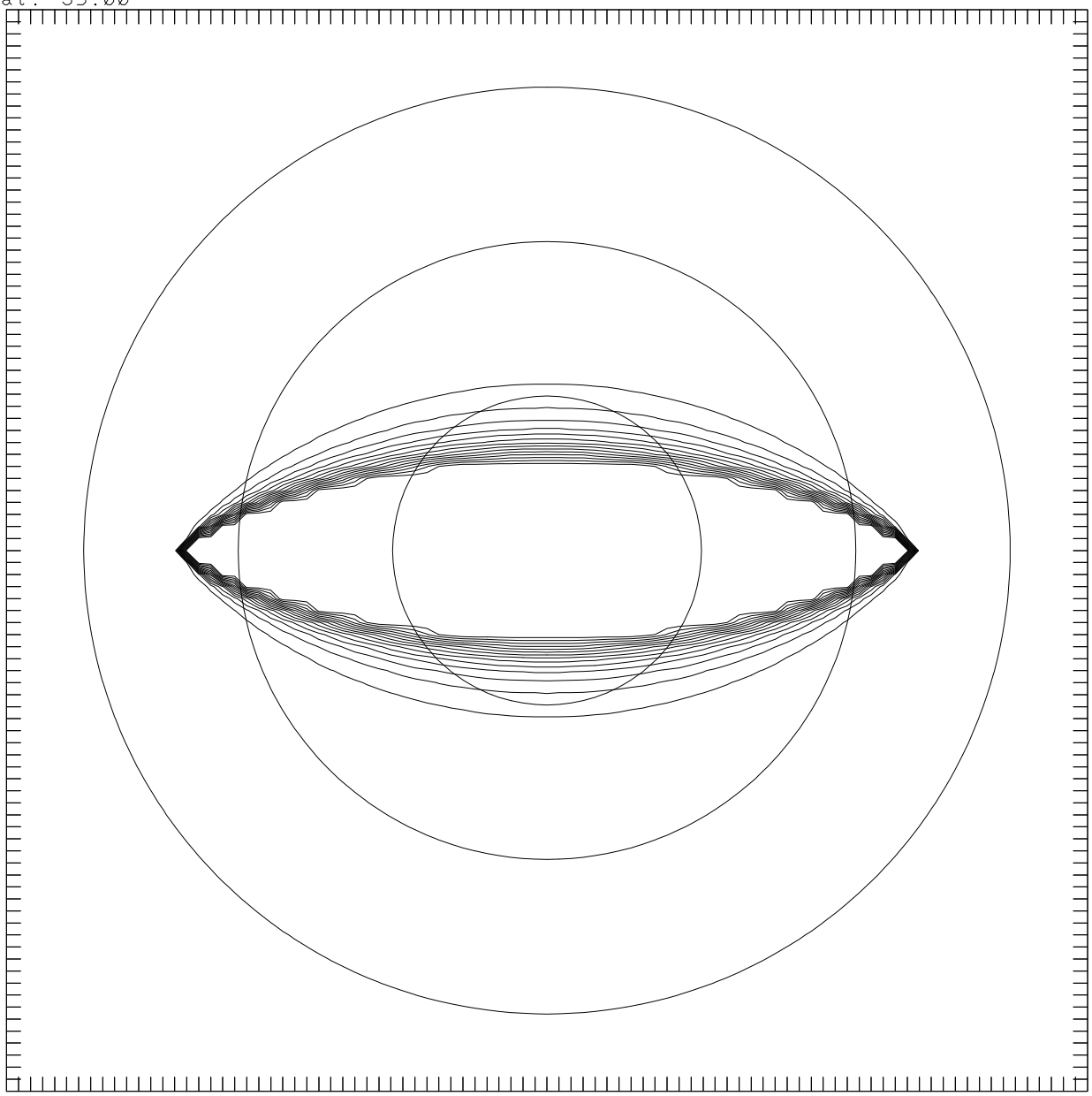

min 0.0000 0.0000
lat. 35.00

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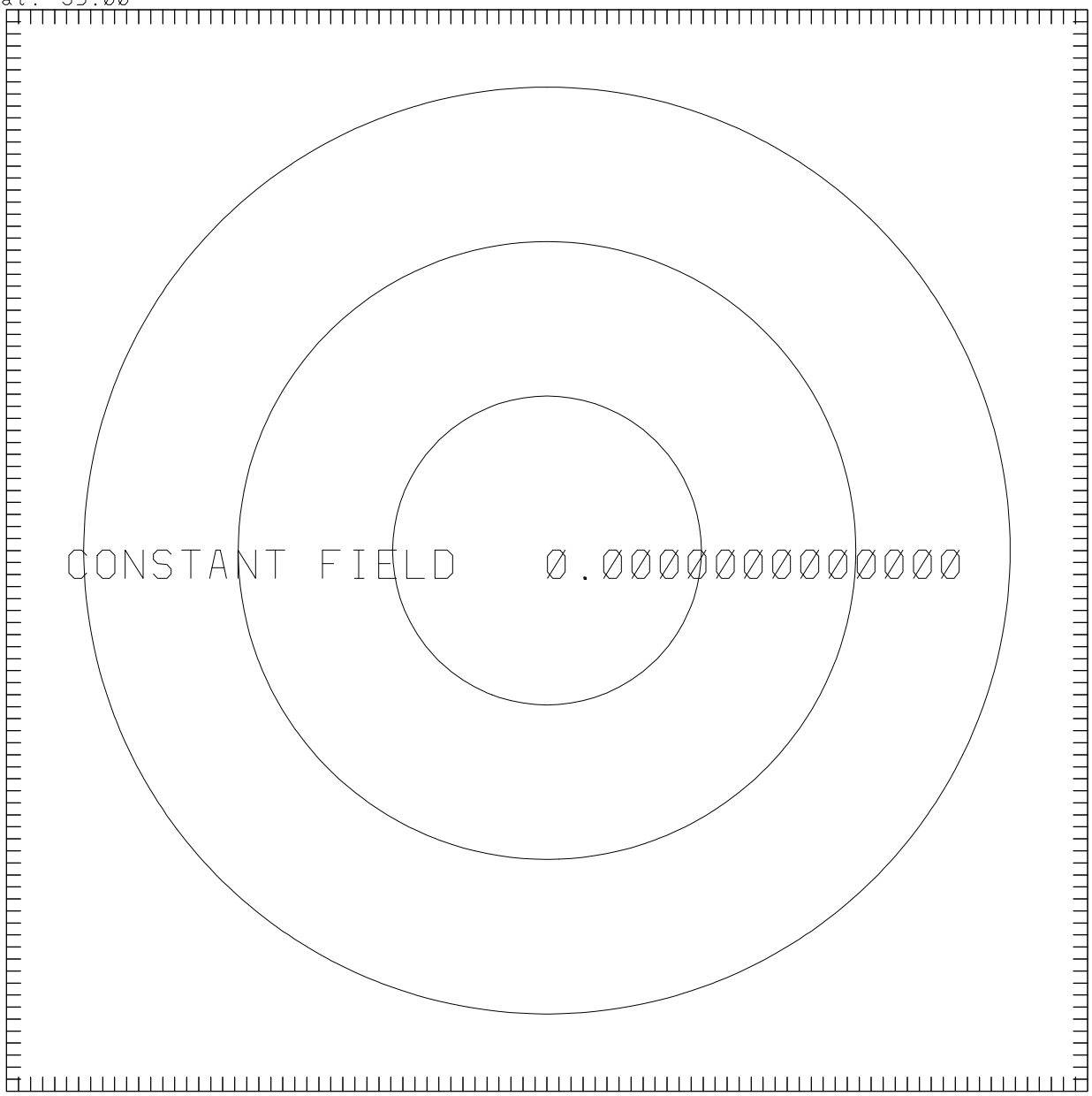

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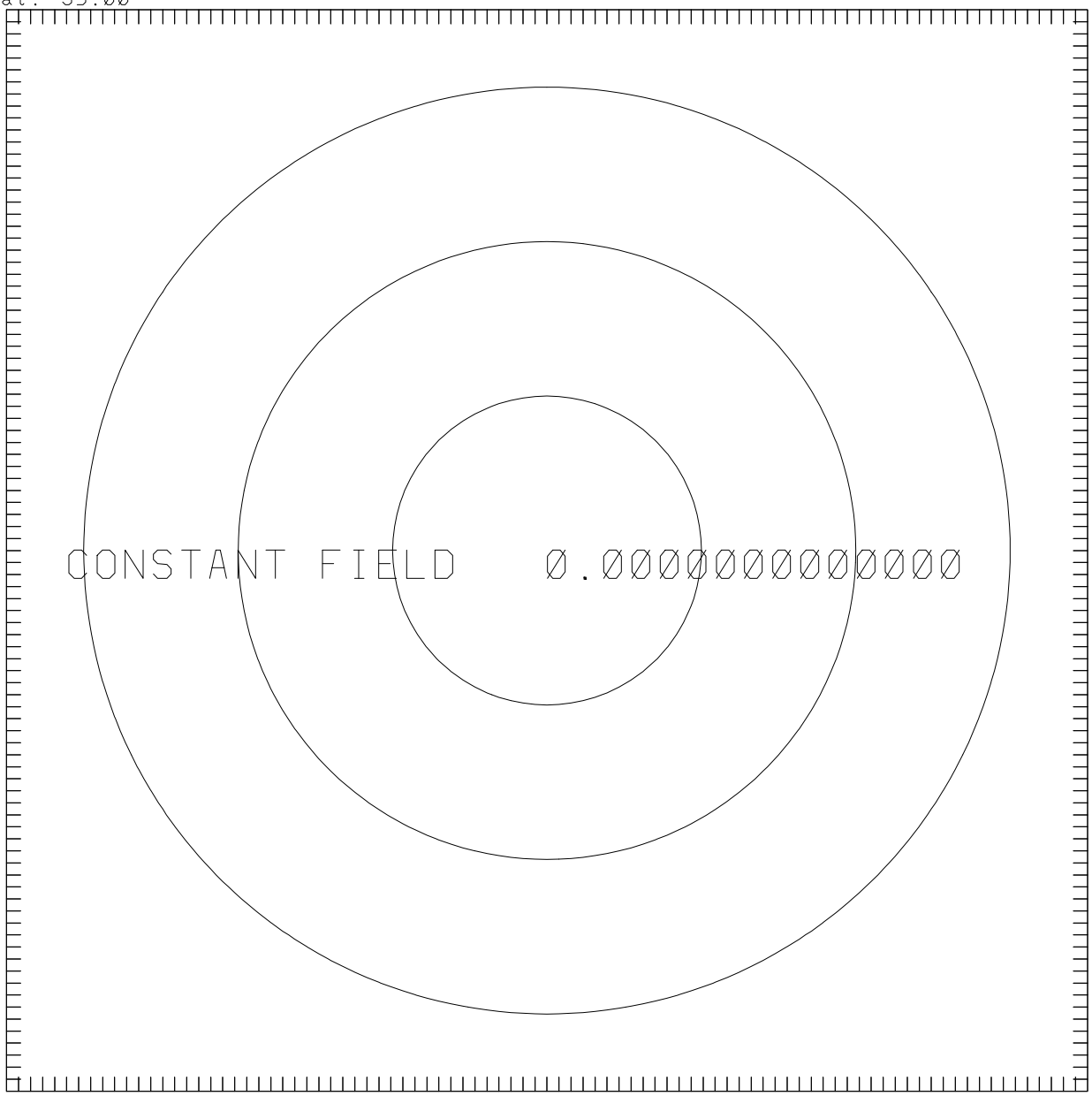

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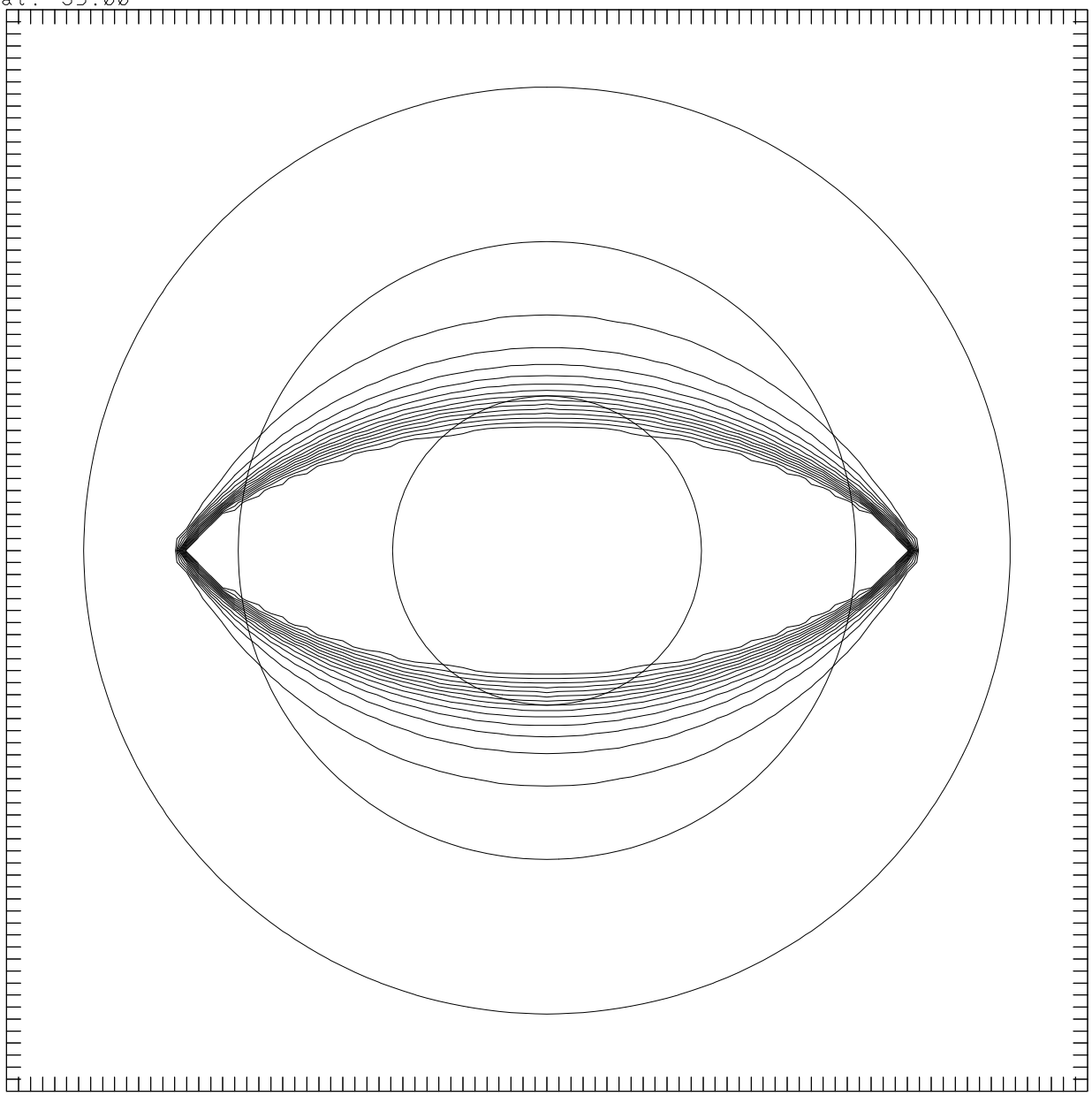
lat. 35.00

htempnth: intensity ut = 0.00



min 0.0000 0.0001
lat. 35.00

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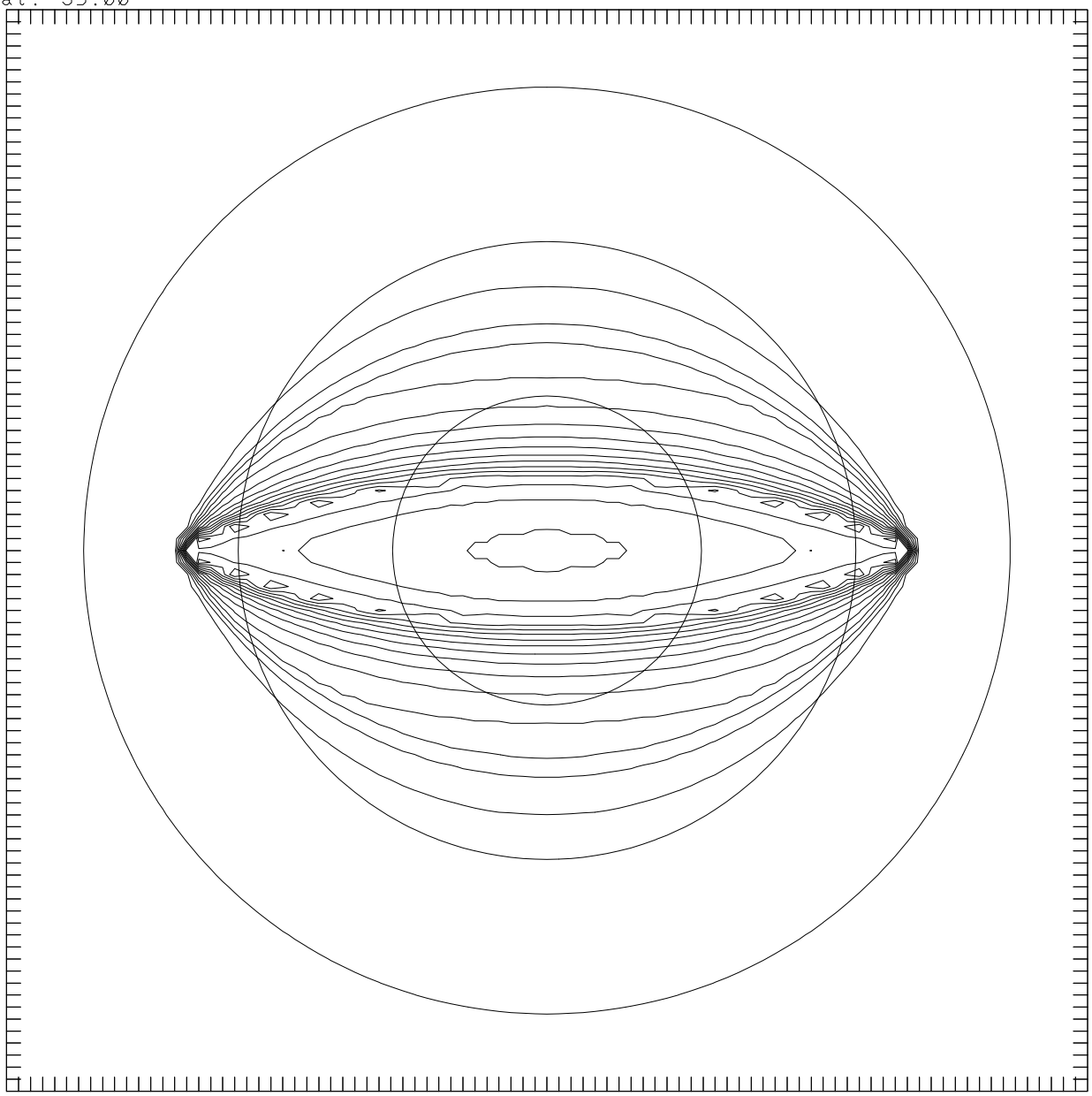

min 0.0000 0.0000
lat. 35.00

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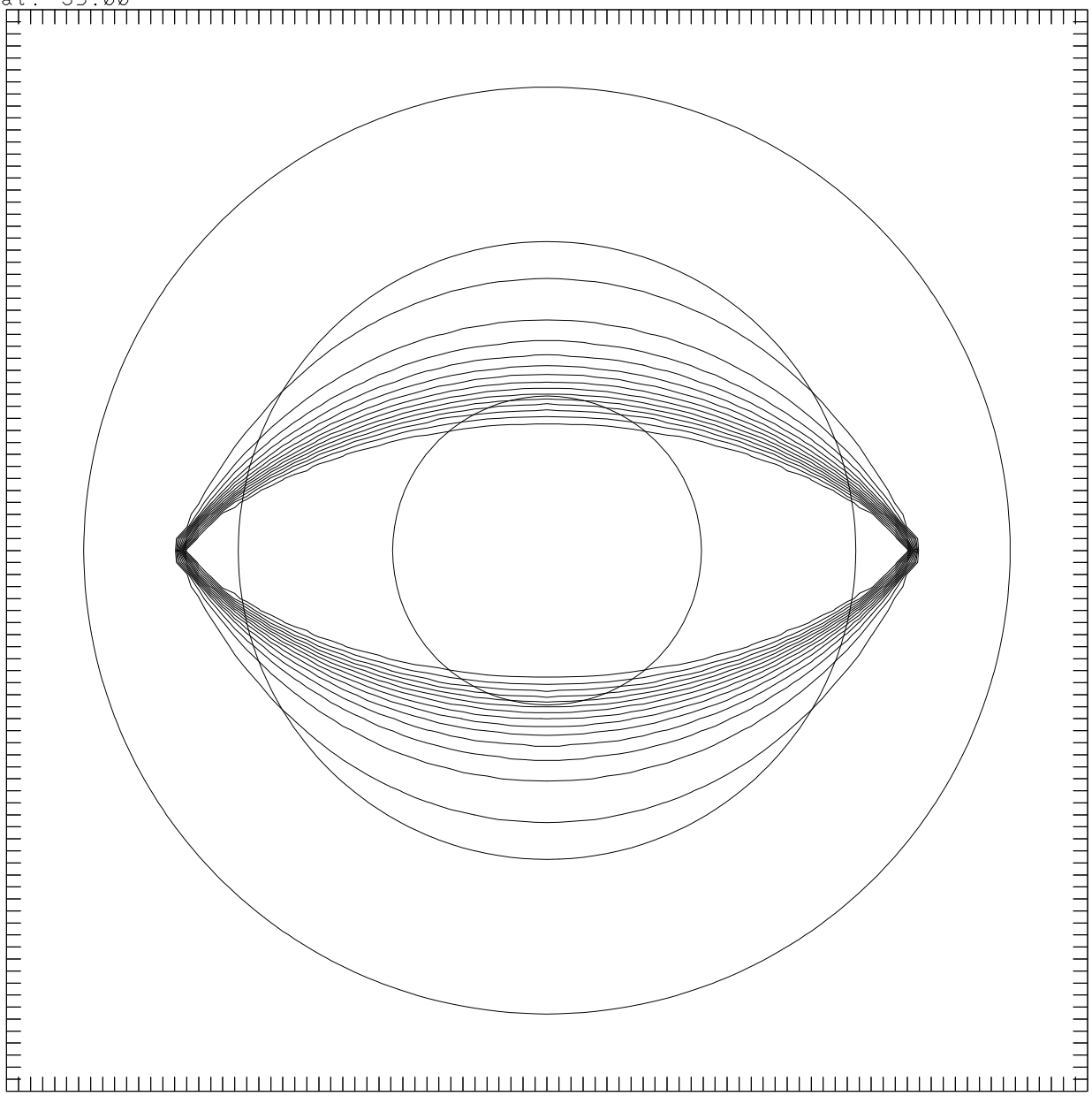
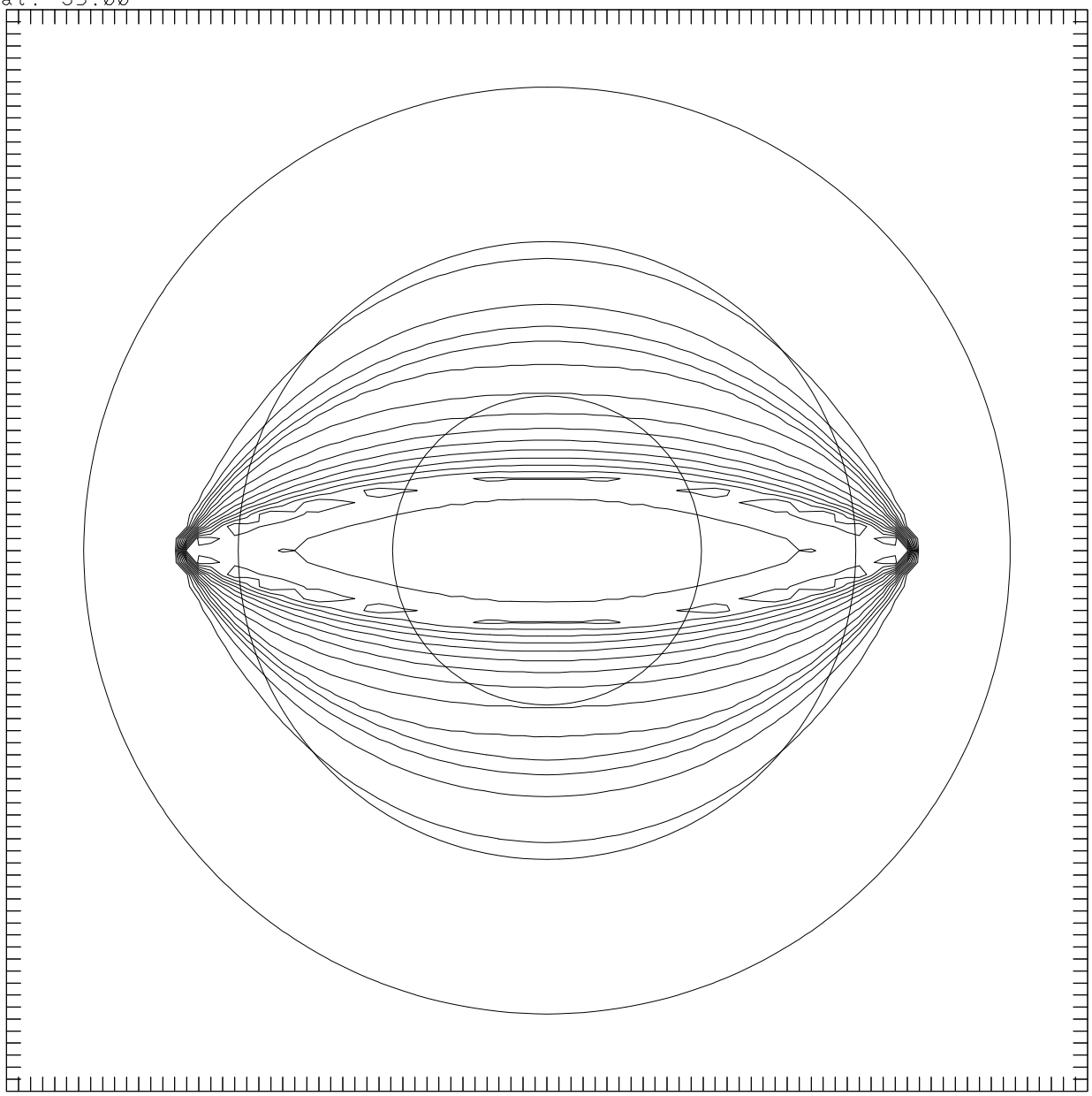
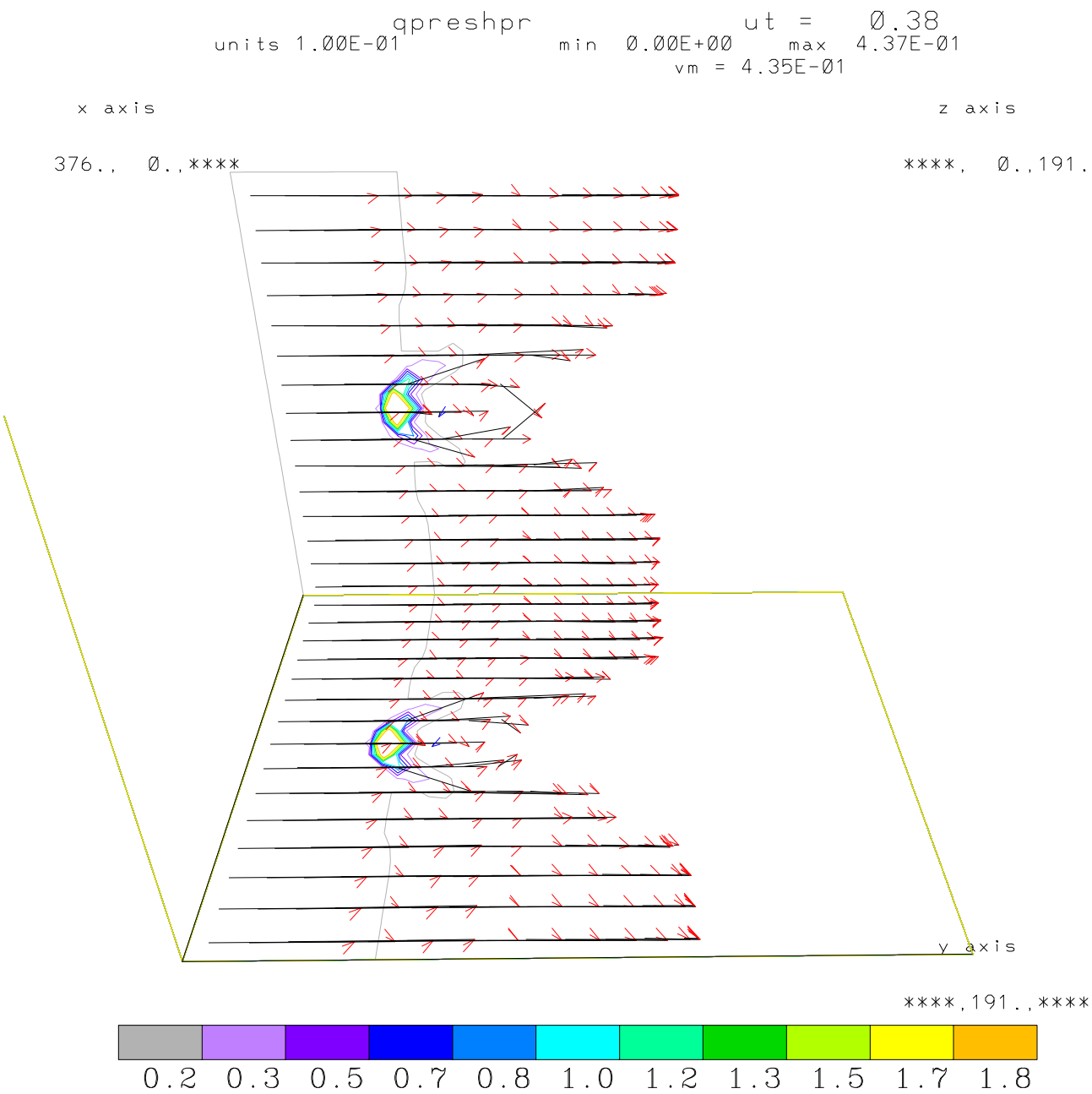
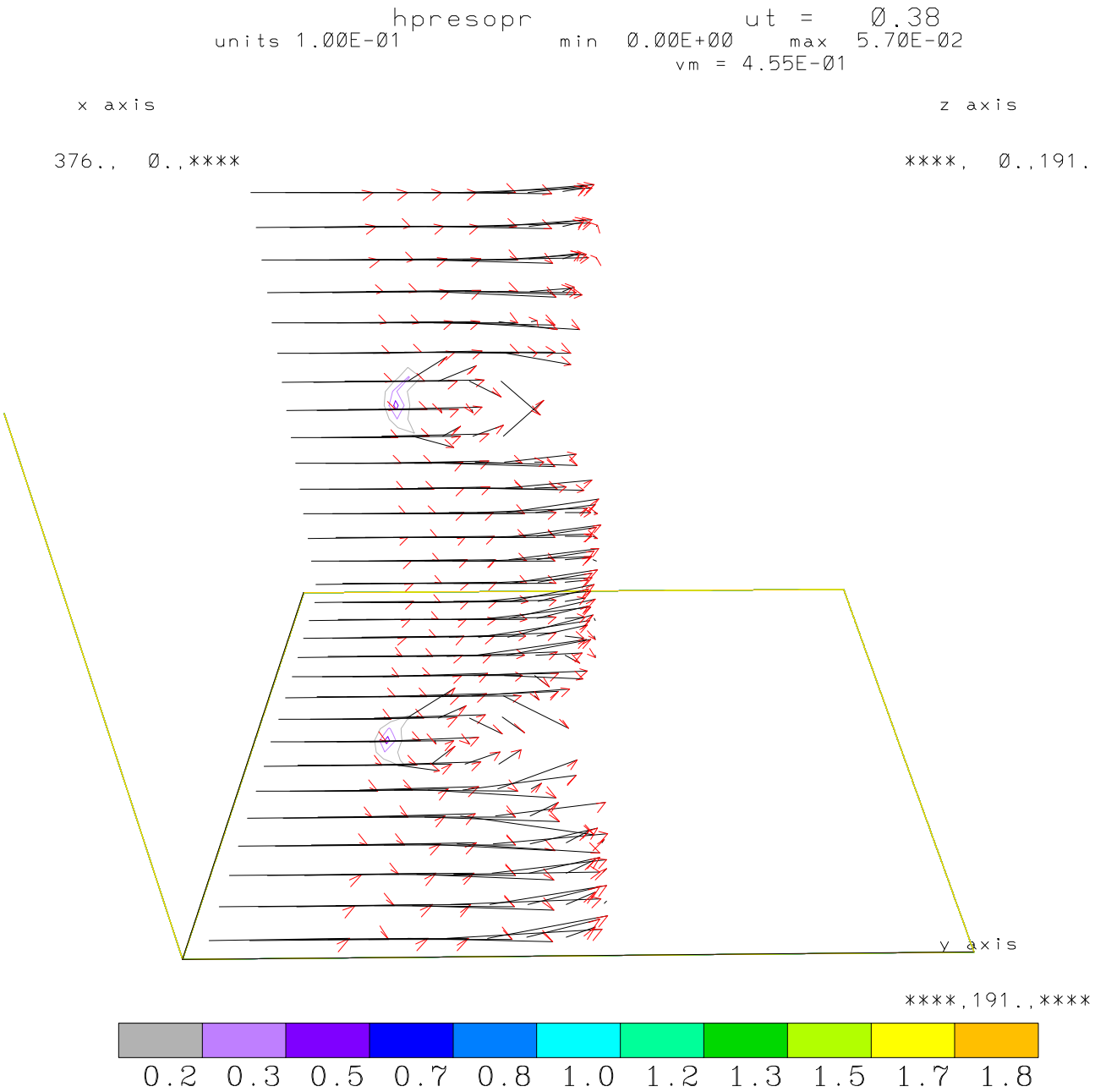


min 0.0000 0.0000
lat. 35.00

etempsth: intensity ut = 0.00




qpreshpr
ut = 0.38
units 1.00E-01
min 0.00E+00
max 4.37E-01
vm = 4.35E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8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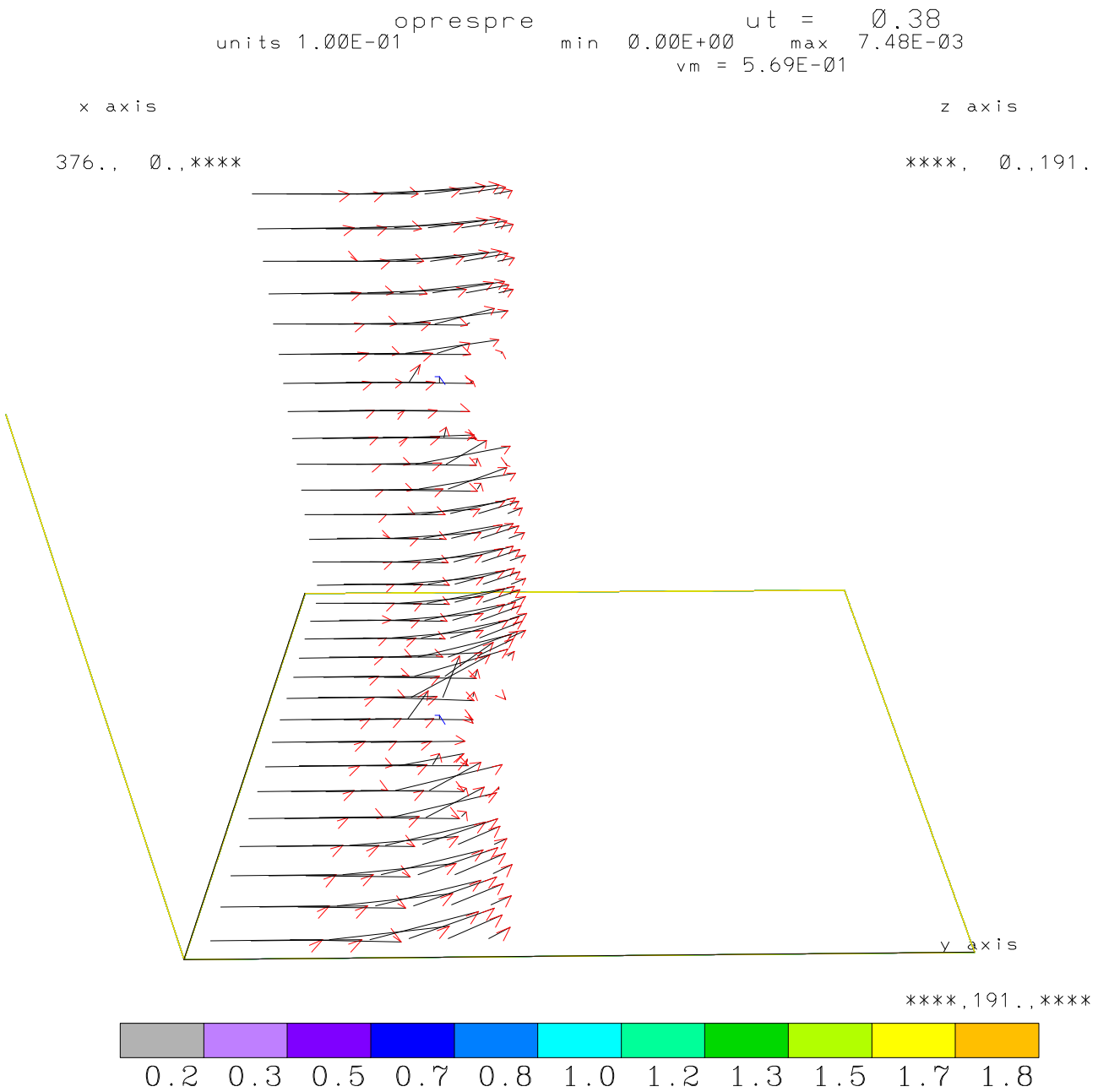
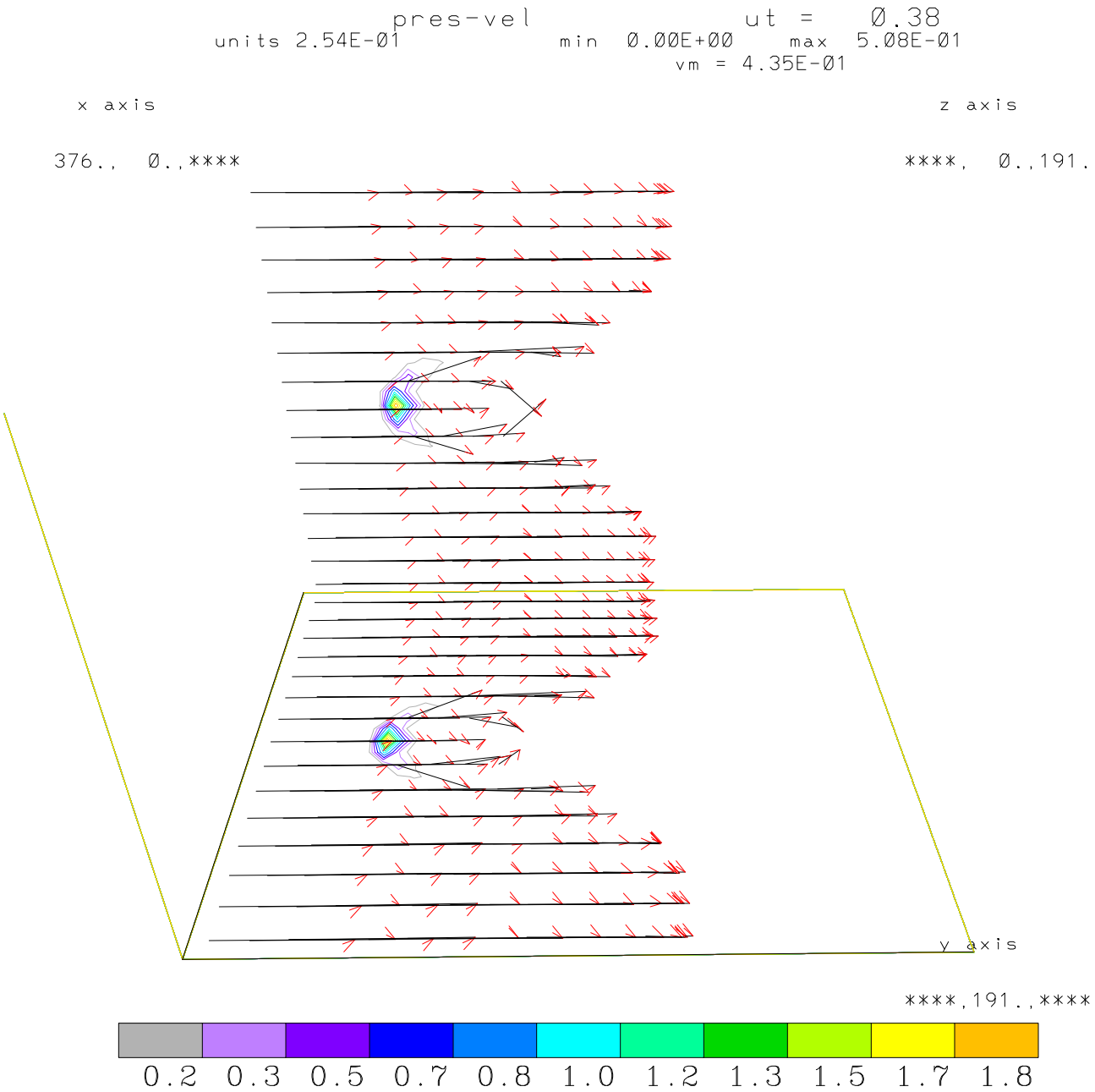
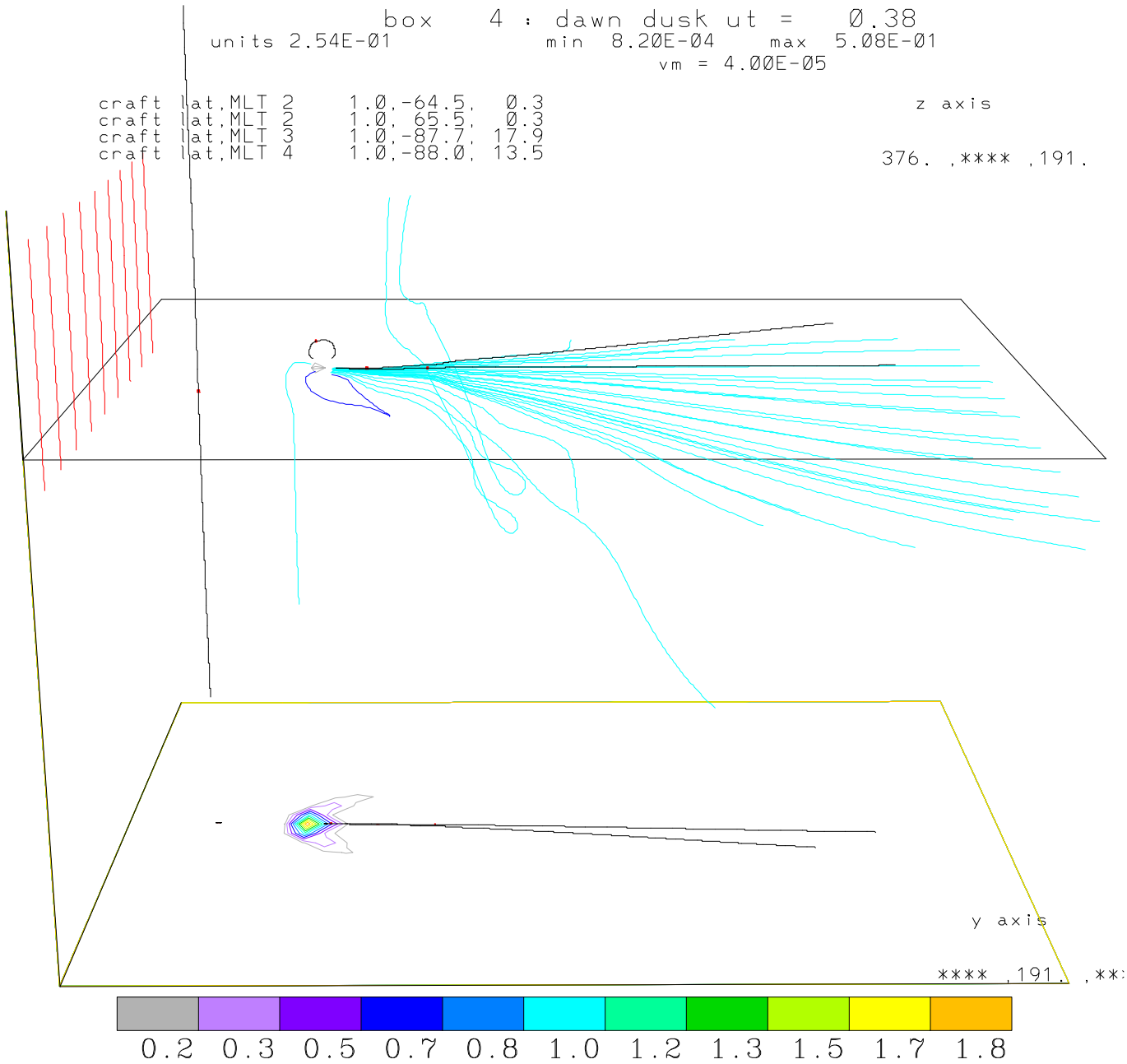
units 1.00E-01
min 0.00E+00
max 5.70E-02
vm = 4.55E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 0.38
units 1.00E-01
min 0.00E+00
max 7.48E-03
vm = 5.69E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.38
units 2.54E-01
min 0.00E+00
max 5.08E-01
vm = 4.35E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 4 : dawn dusk ut = 0.38
units 2.54E-01
min 8.20E-04 max 5.08E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-64.5, 0.3
craft lat,MLT 2 1.0, 65.5, 0.3
craft lat,MLT 3 1.0,-87.7, 17.9
craft lat,MLT 4 1.0,-88.0, 13.5
z axis
376. ,**** ,191.
y axis
**** ,191. ,**:
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

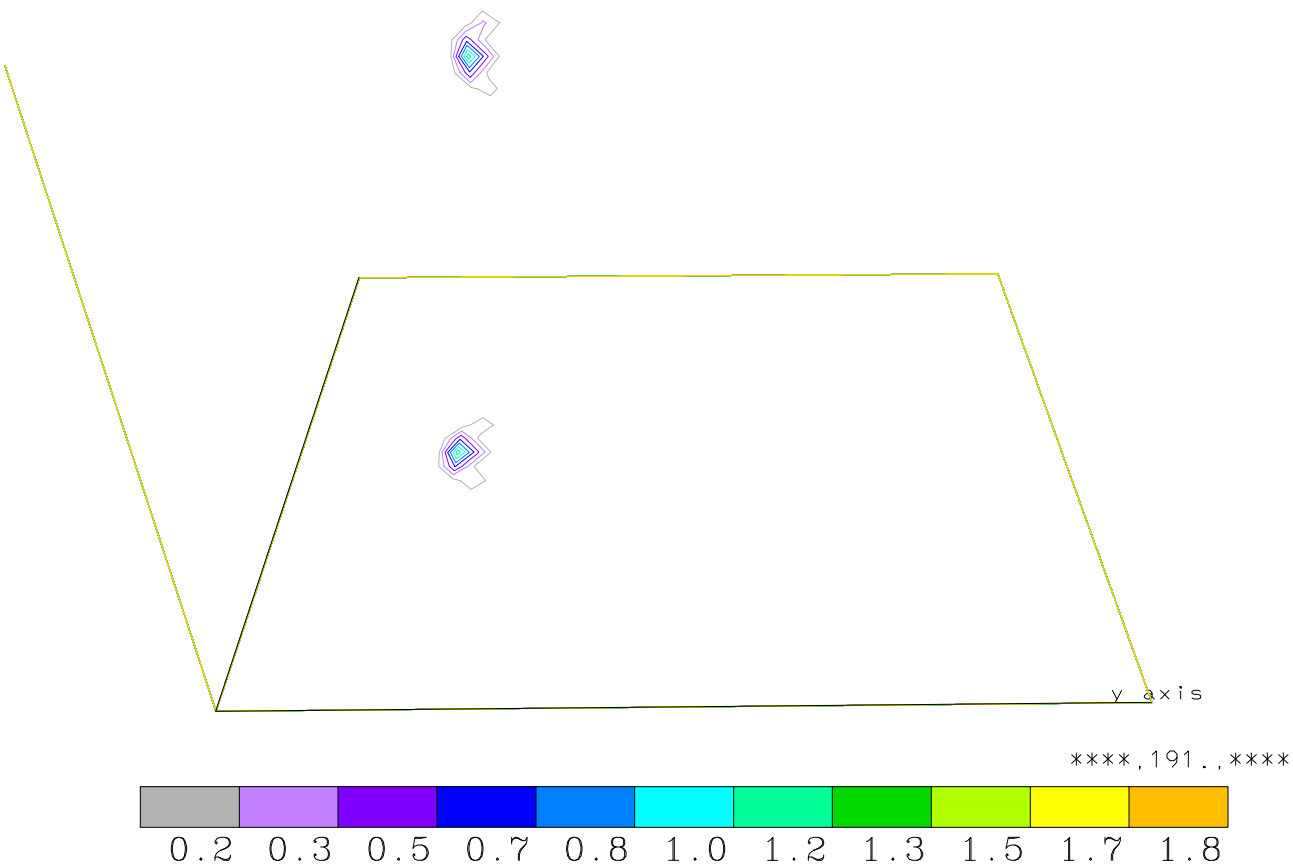
epresq t ut = 0.38

units 2.00E-01 min 0.00E+00 max 2.53E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



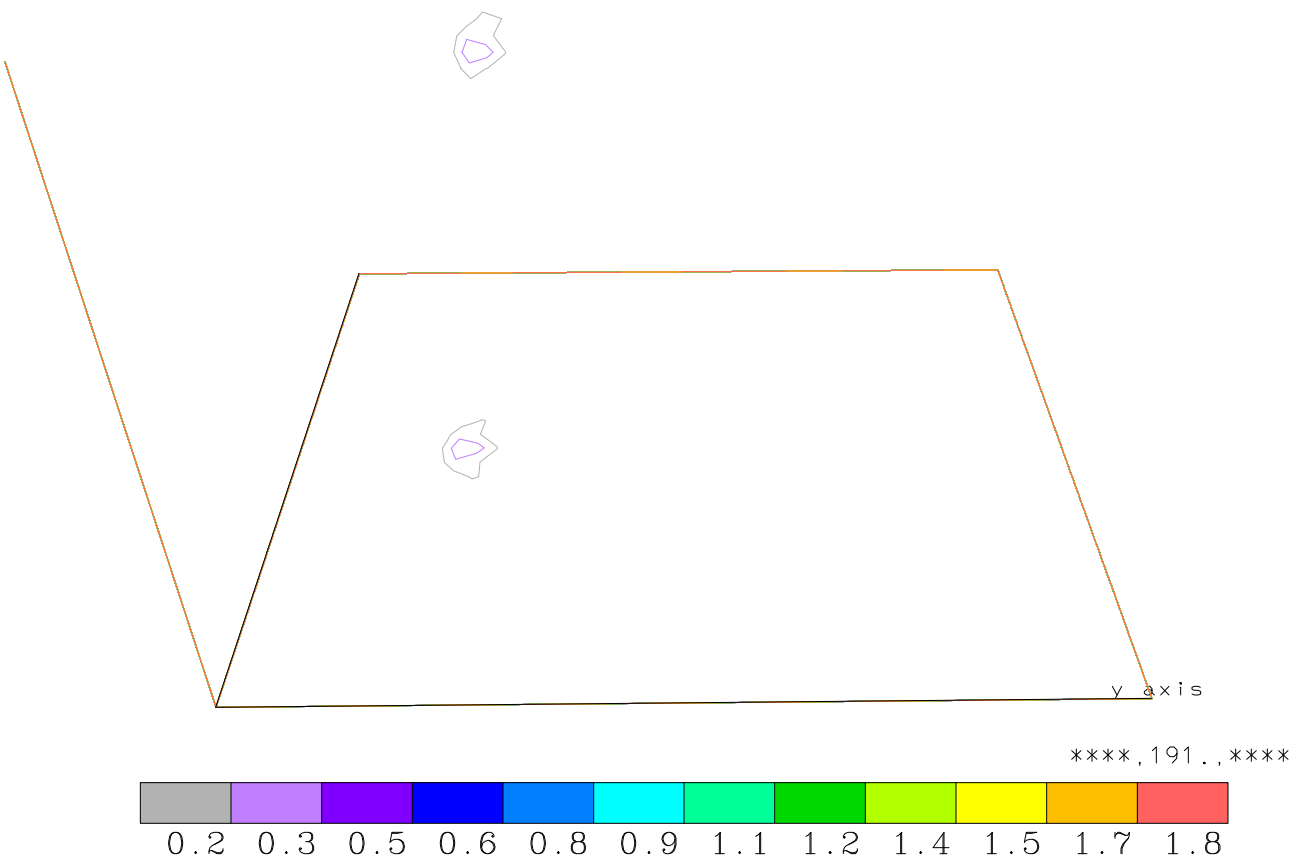
q temph ut = 0.38

units 2.50E-01 min 0.00E+00 max 1.04E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



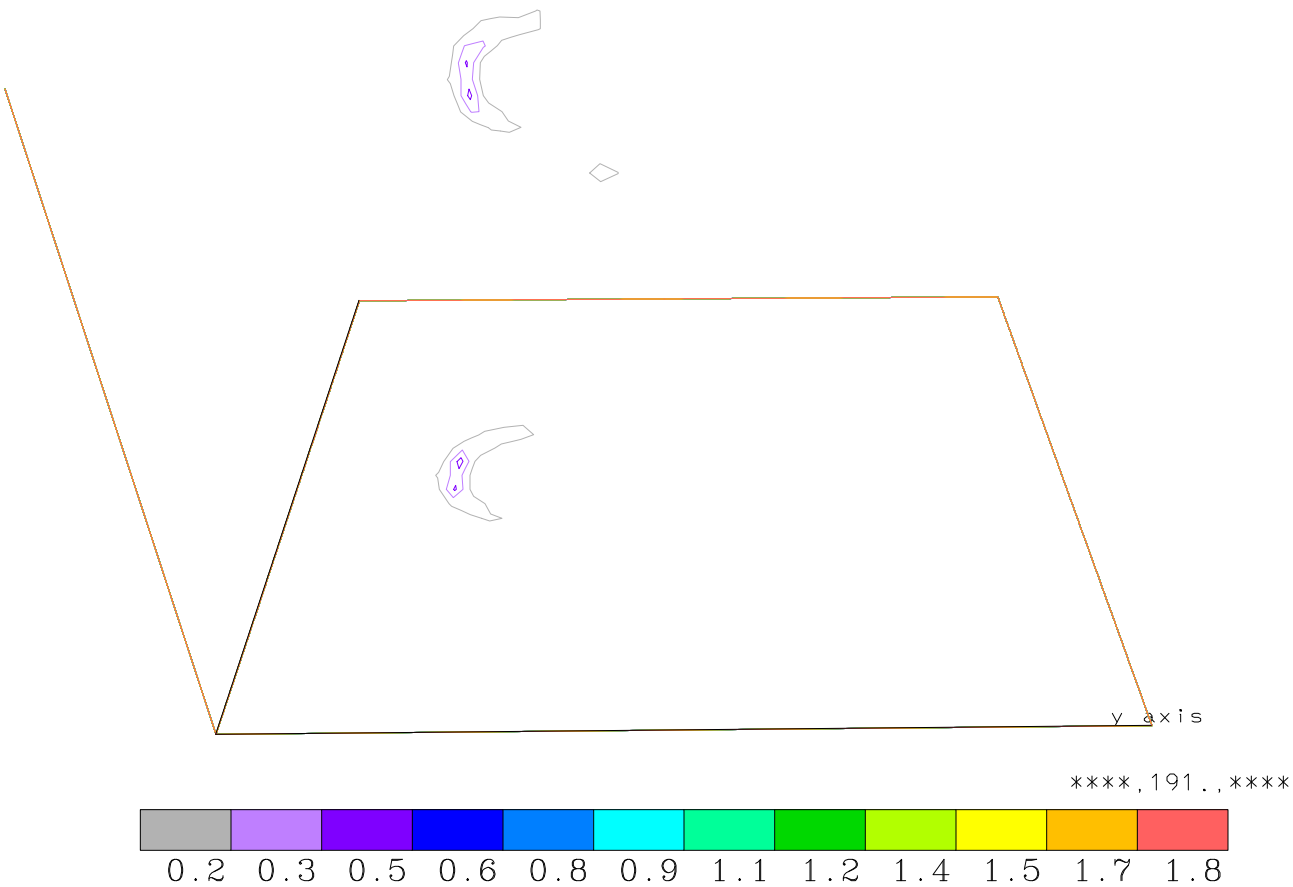
h tempo ut = 0.38

units 2.50E-01 min 0.00E+00 max 1.33E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



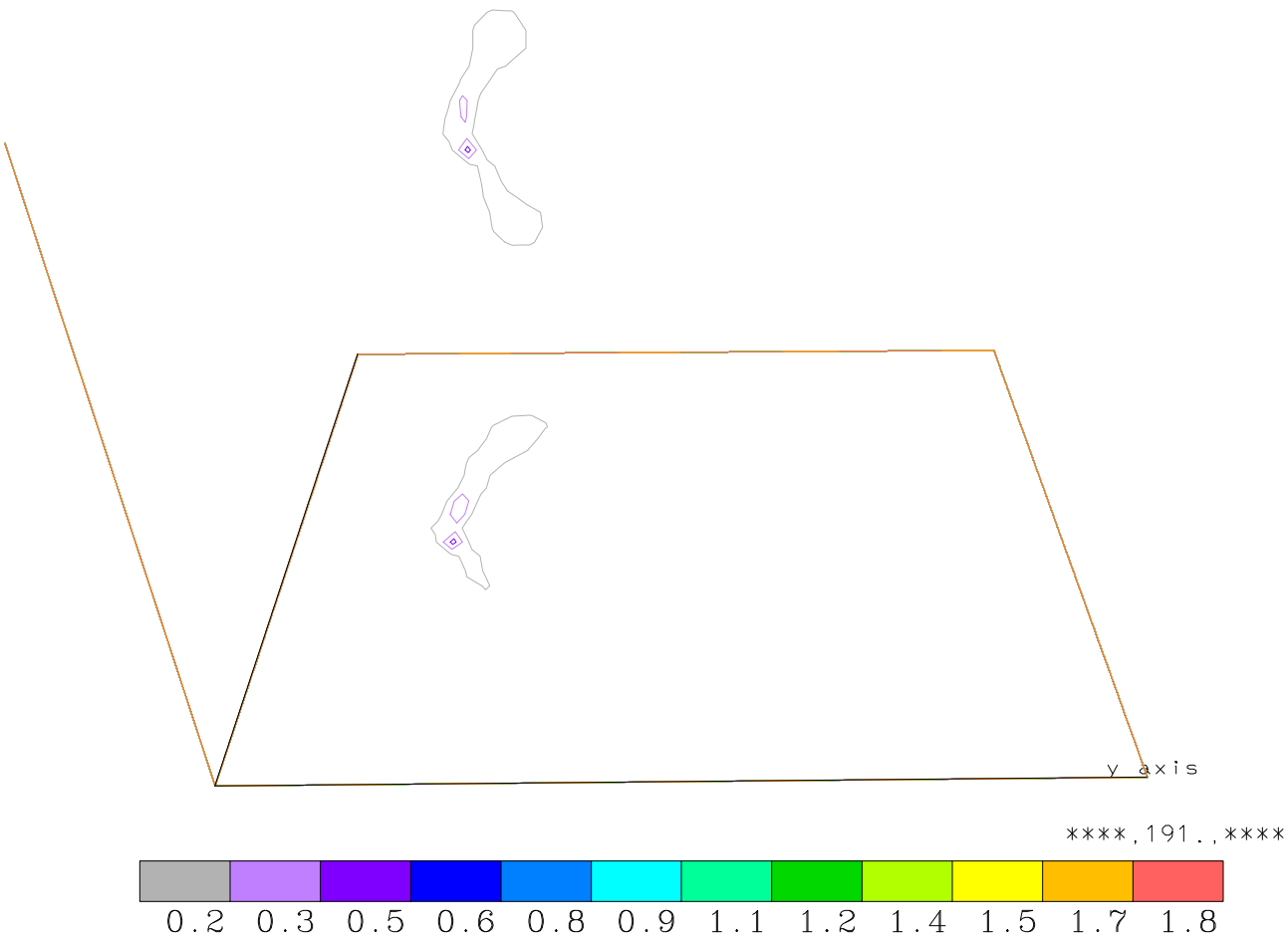
o tempe ut = 0.38

units 2.50E-01 min 0.00E+00 max 1.33E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



e tempq ut = 0.38

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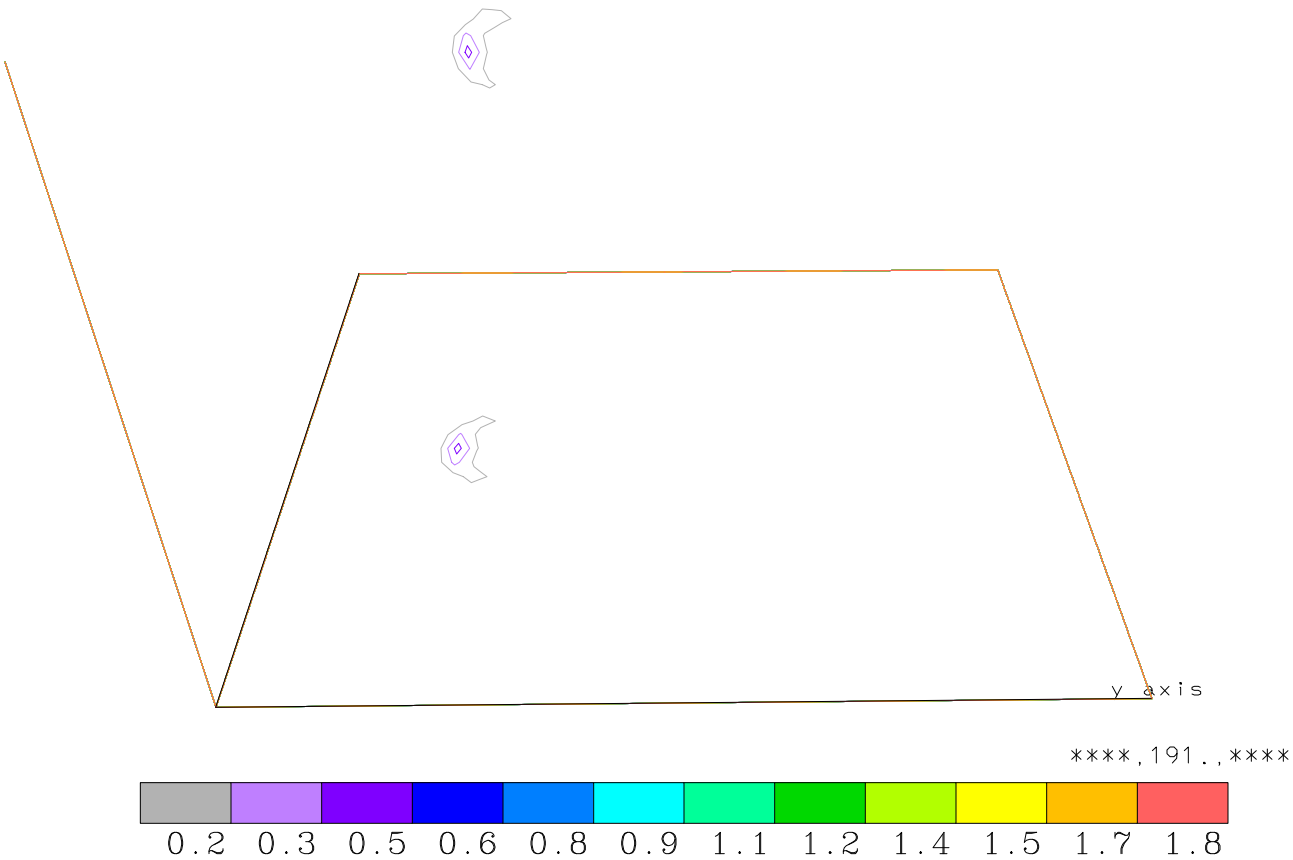
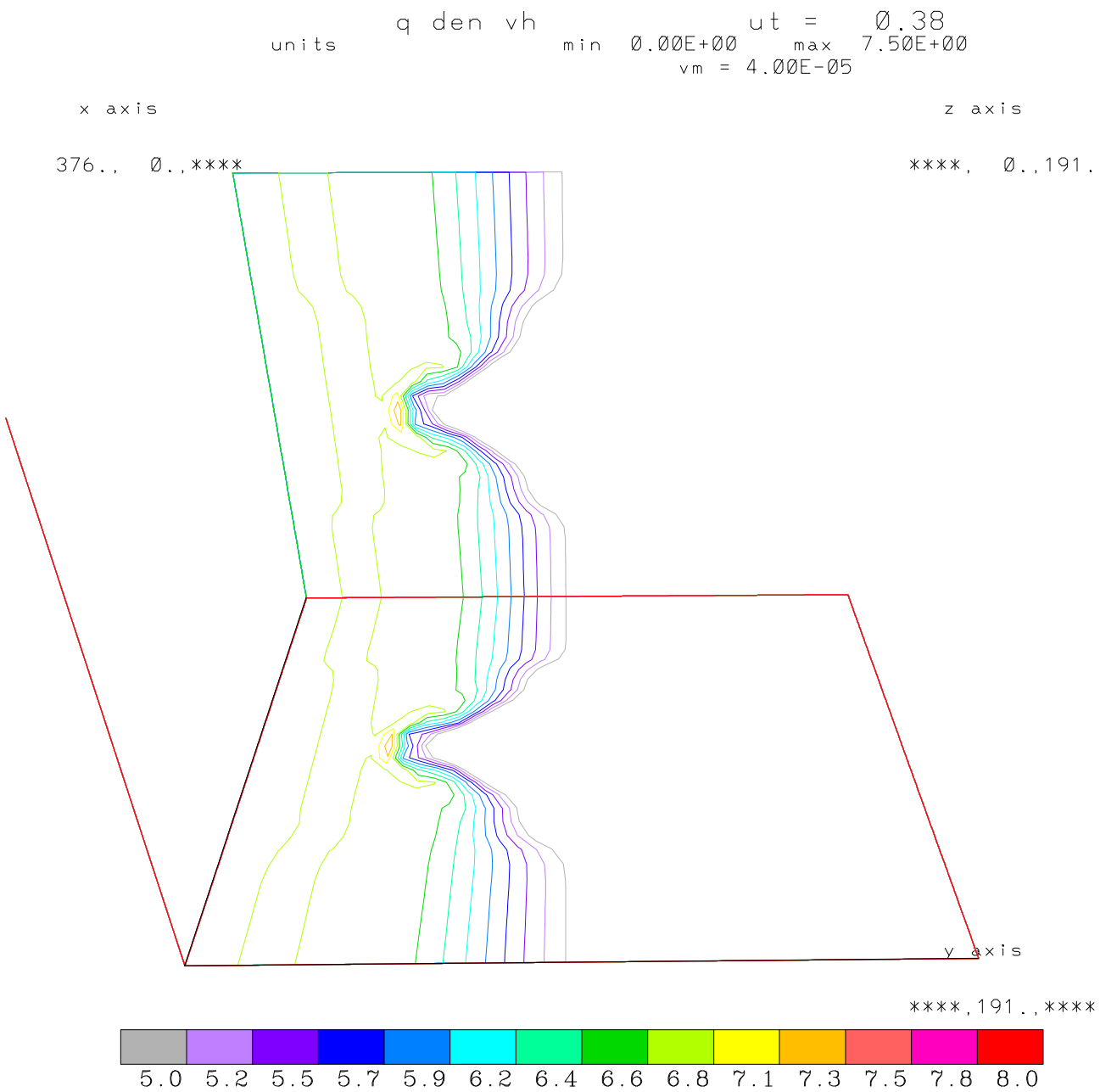
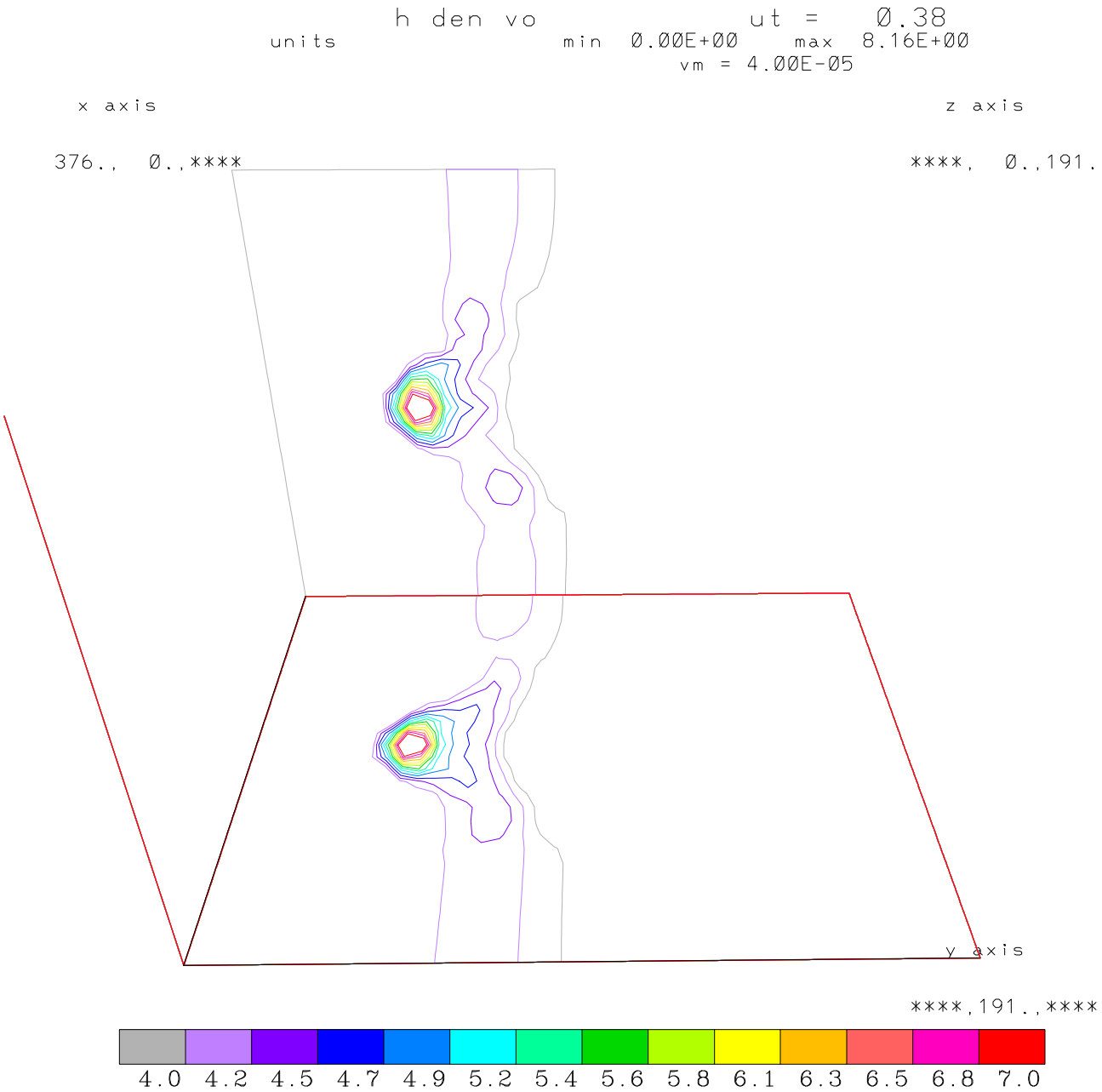
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




q den vh
ut = 0.38
units
min 0.00E+00
max 7.50E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 0.38
units min 0.00E+00 max 8.16E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

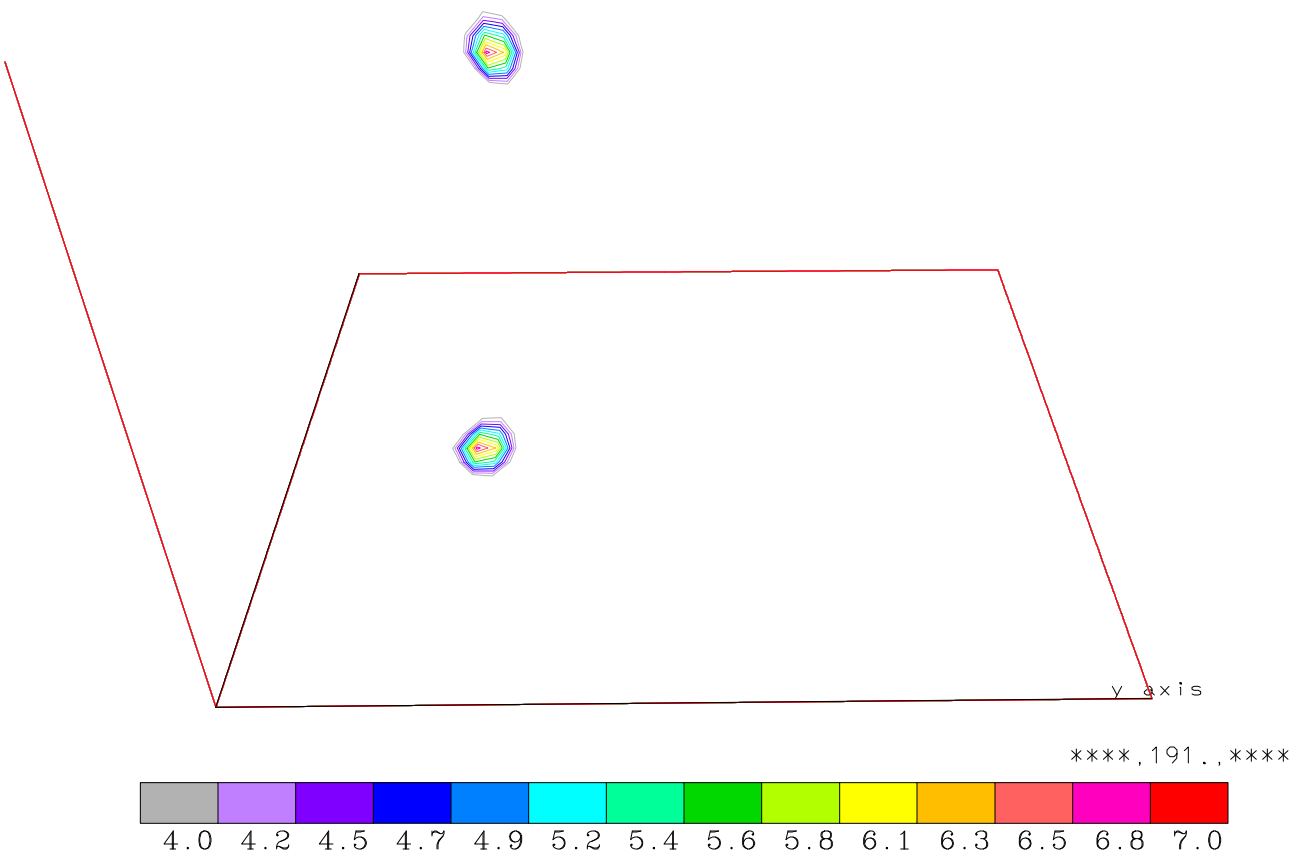
o den vt ut = 0.38

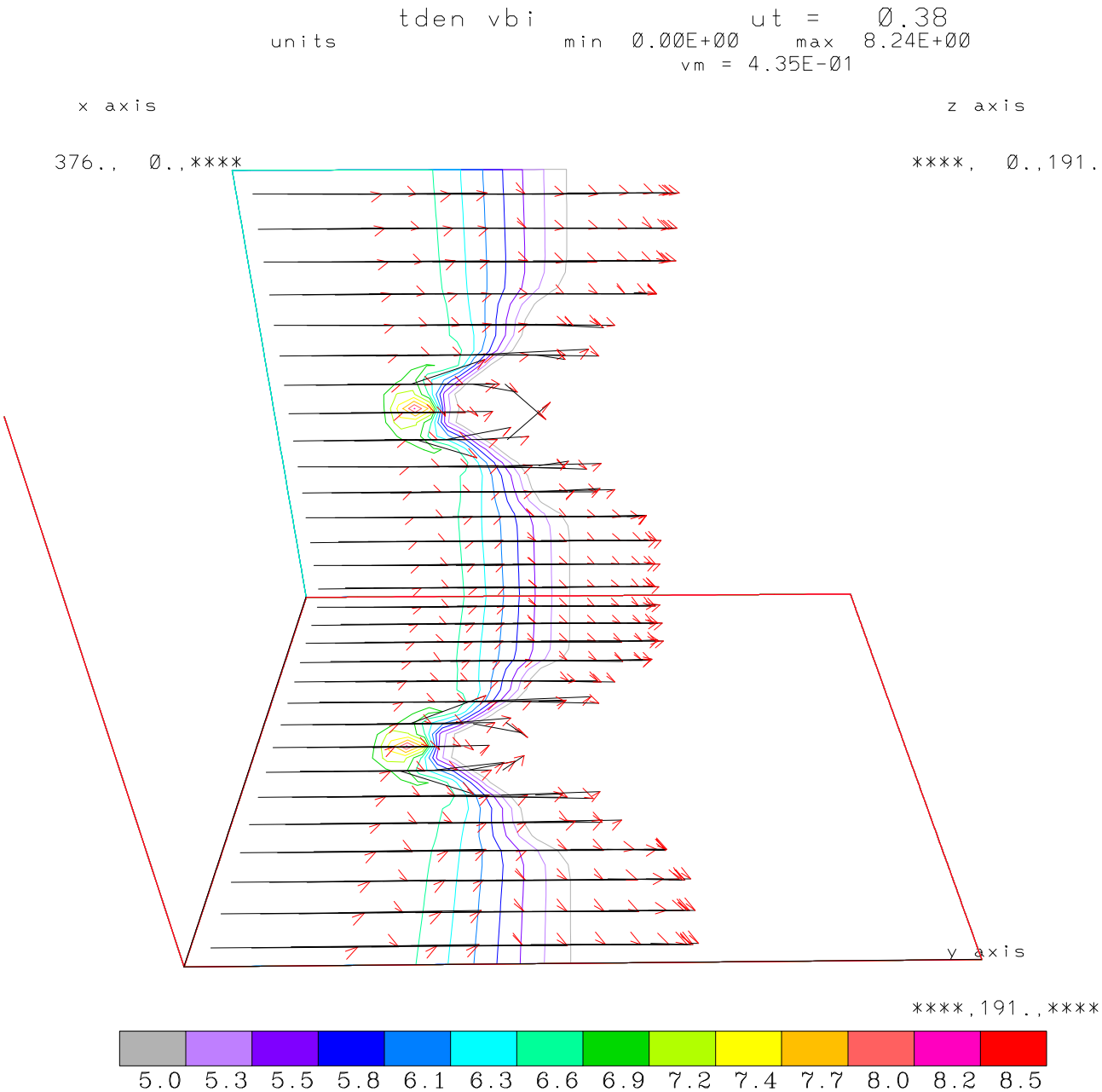
units min 0.00E+00 max 6.87E+00

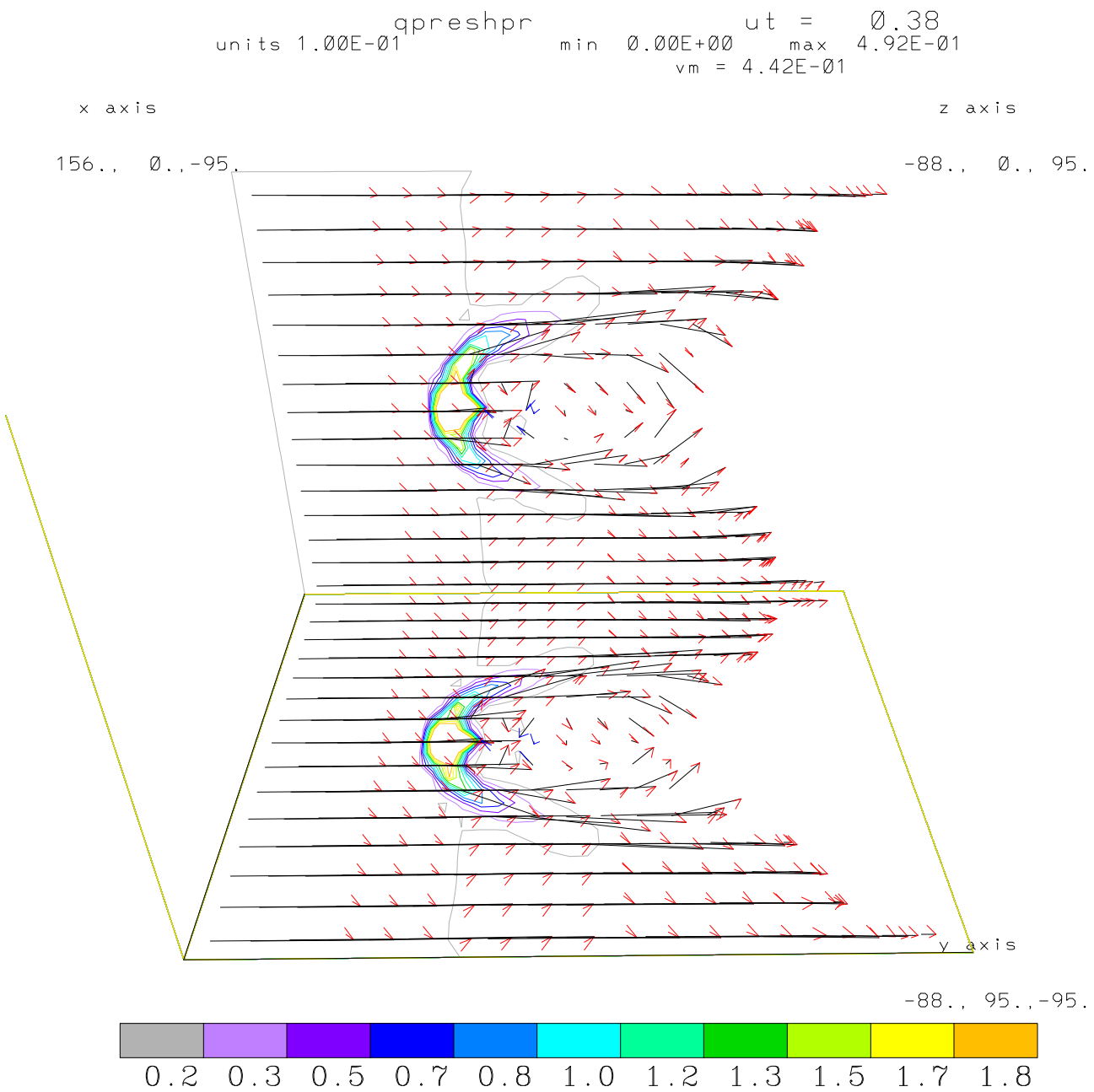
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




tden vbi
ut = 0.38
units
min 0.00E+00
max 8.24E+00
vm = 4.35E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5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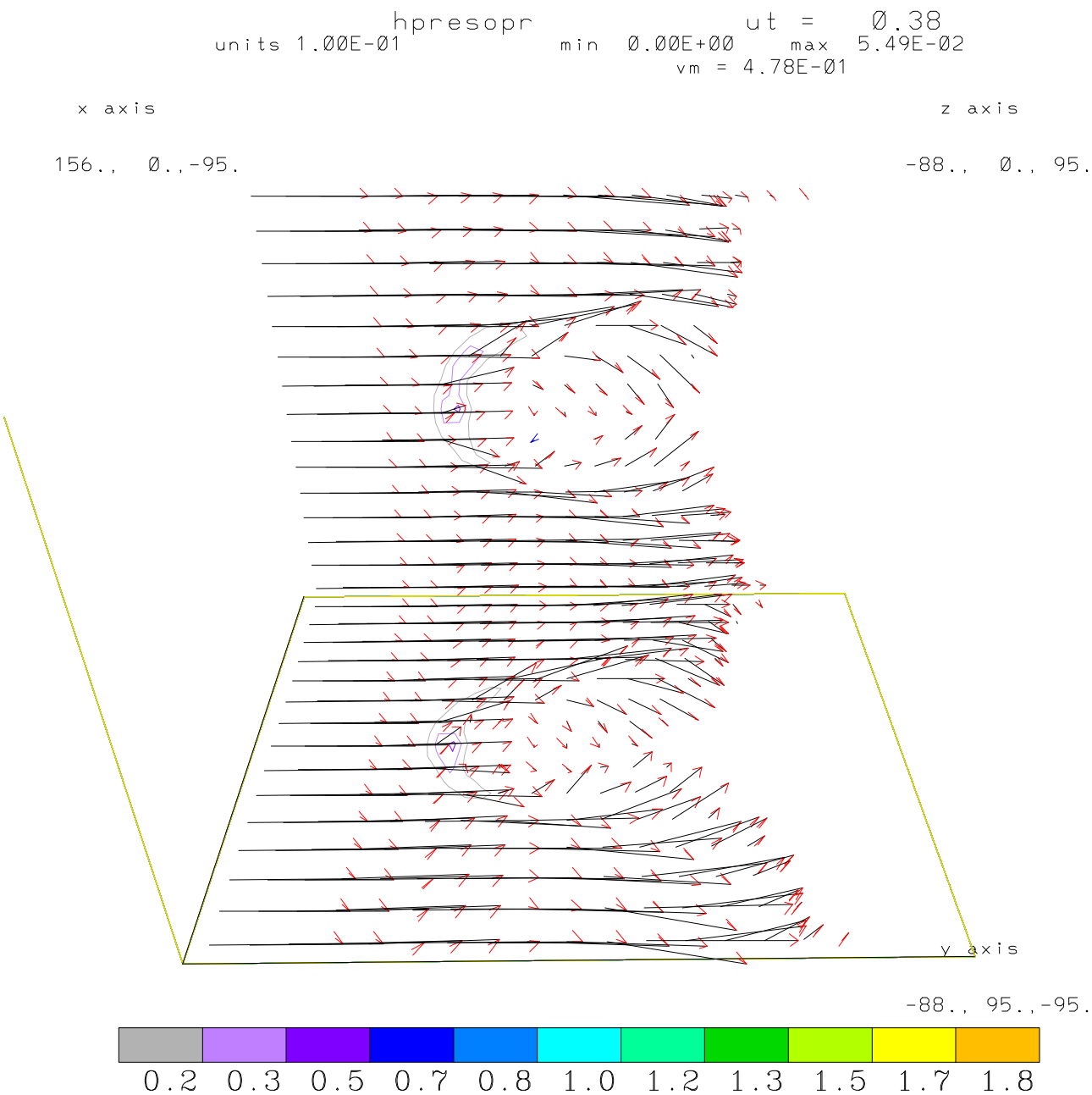
max 4.92E-01
vm = 4.42E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
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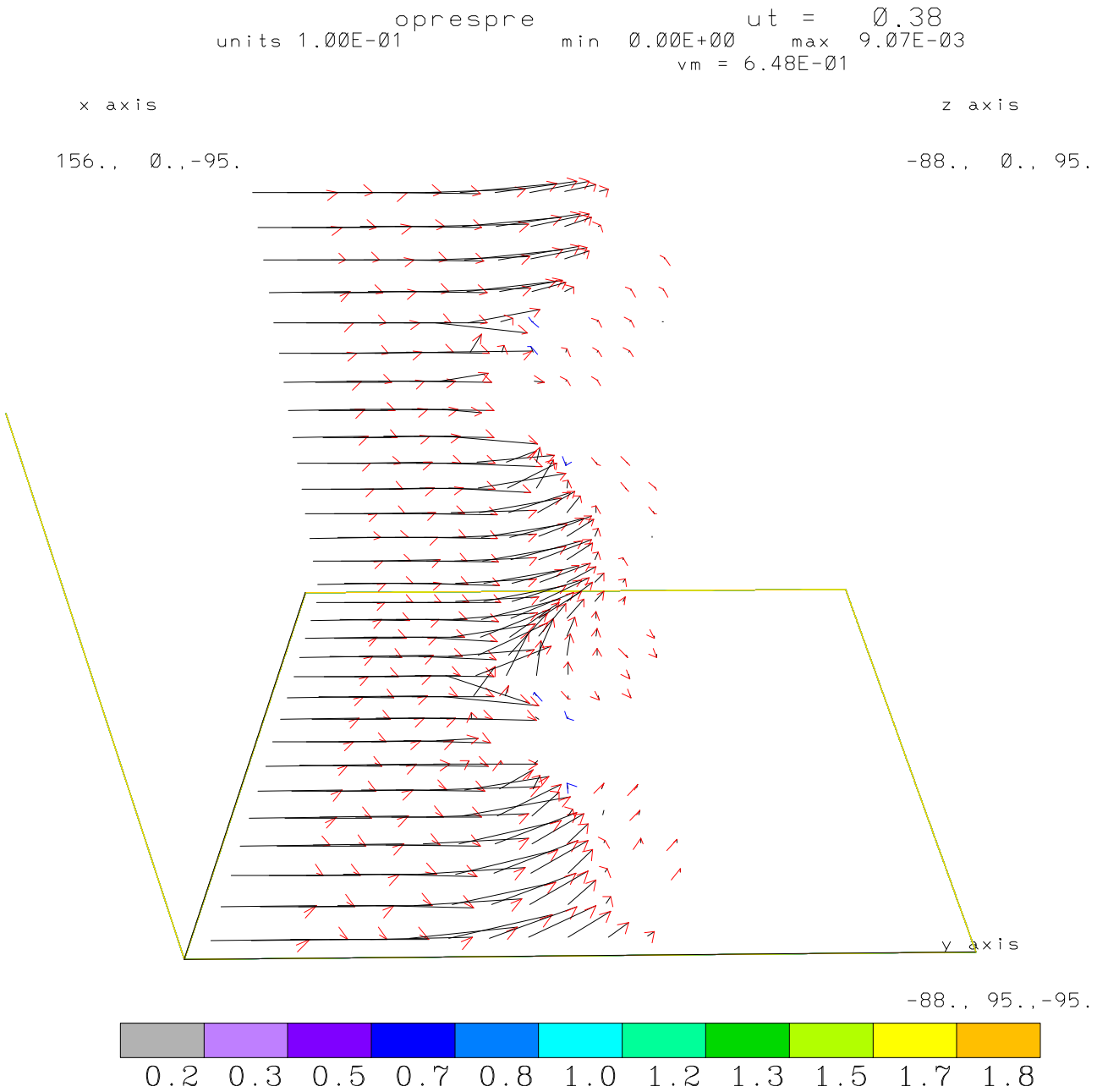
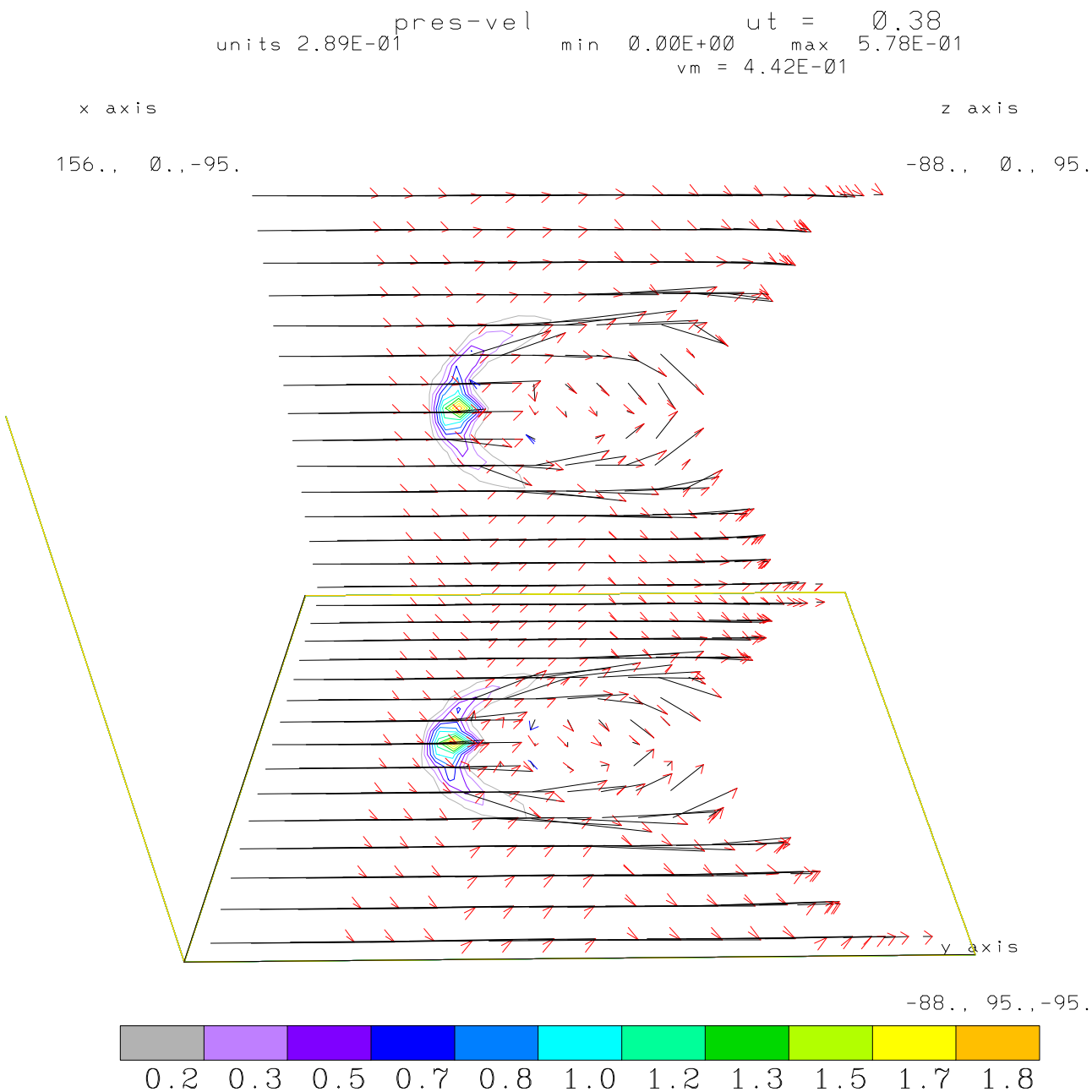
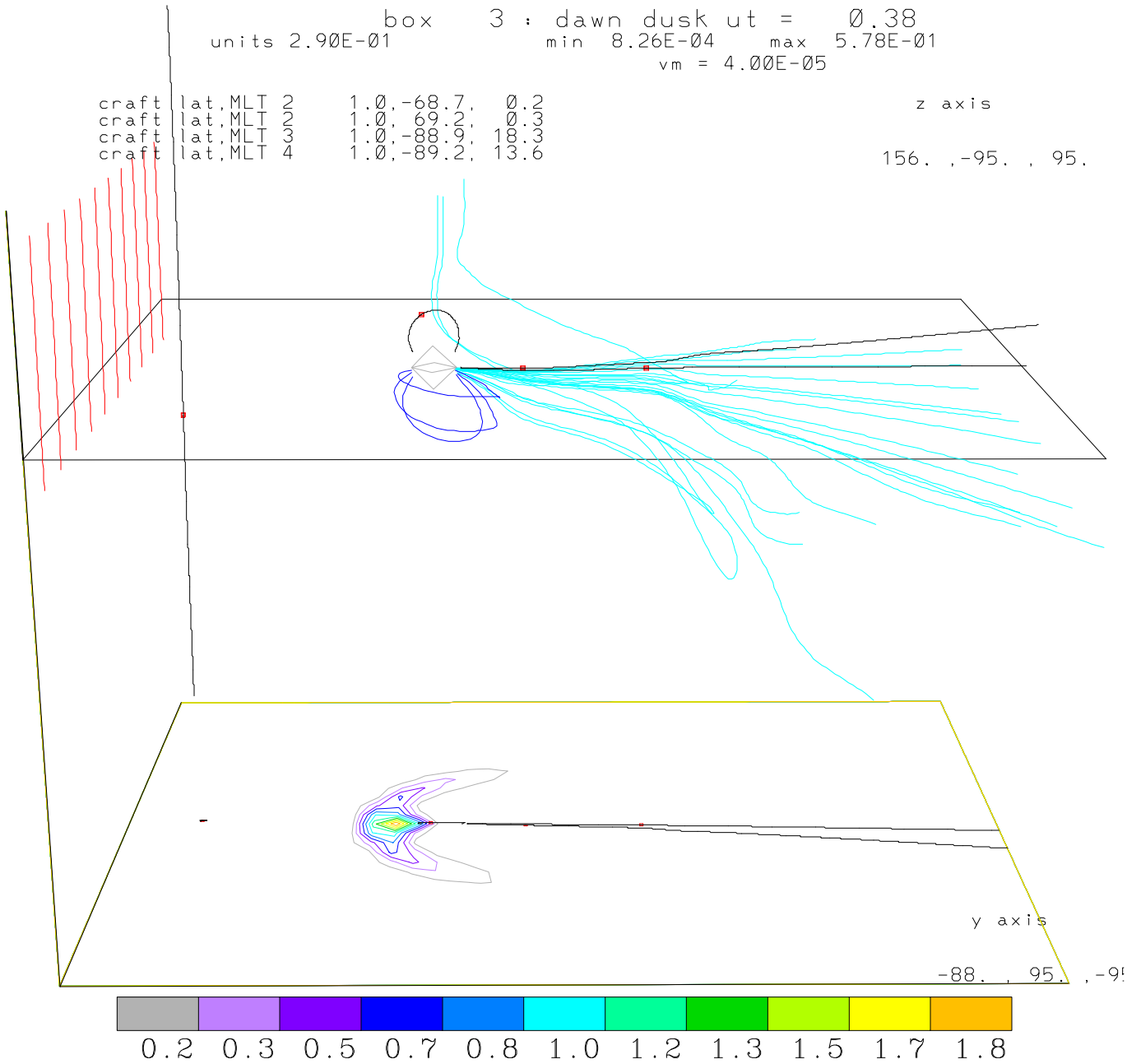
min 0.00E+00
max 5.49E-02
vm = 4.78E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 0.38
units 1.00E-01
min 0.00E+00
max 9.07E-03
vm = 6.48E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.38
units 2.89E-01
min 0.00E+00
max 5.78E-01
vm = 4.42E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 3 : dawn dusk ut = 0.38
units 2.90E-01
min 8.26E-04
max 5.78E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-68.7, 0.2
craft lat,MLT 2 1.0, 69.2, 0.3
craft lat,MLT 3 1.0,-88.9, 18.3
craft lat,MLT 4 1.0,-89.2, 13.6
z axis
156. ,-95. , 95.
y axis
-88. , 95. ,-9
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

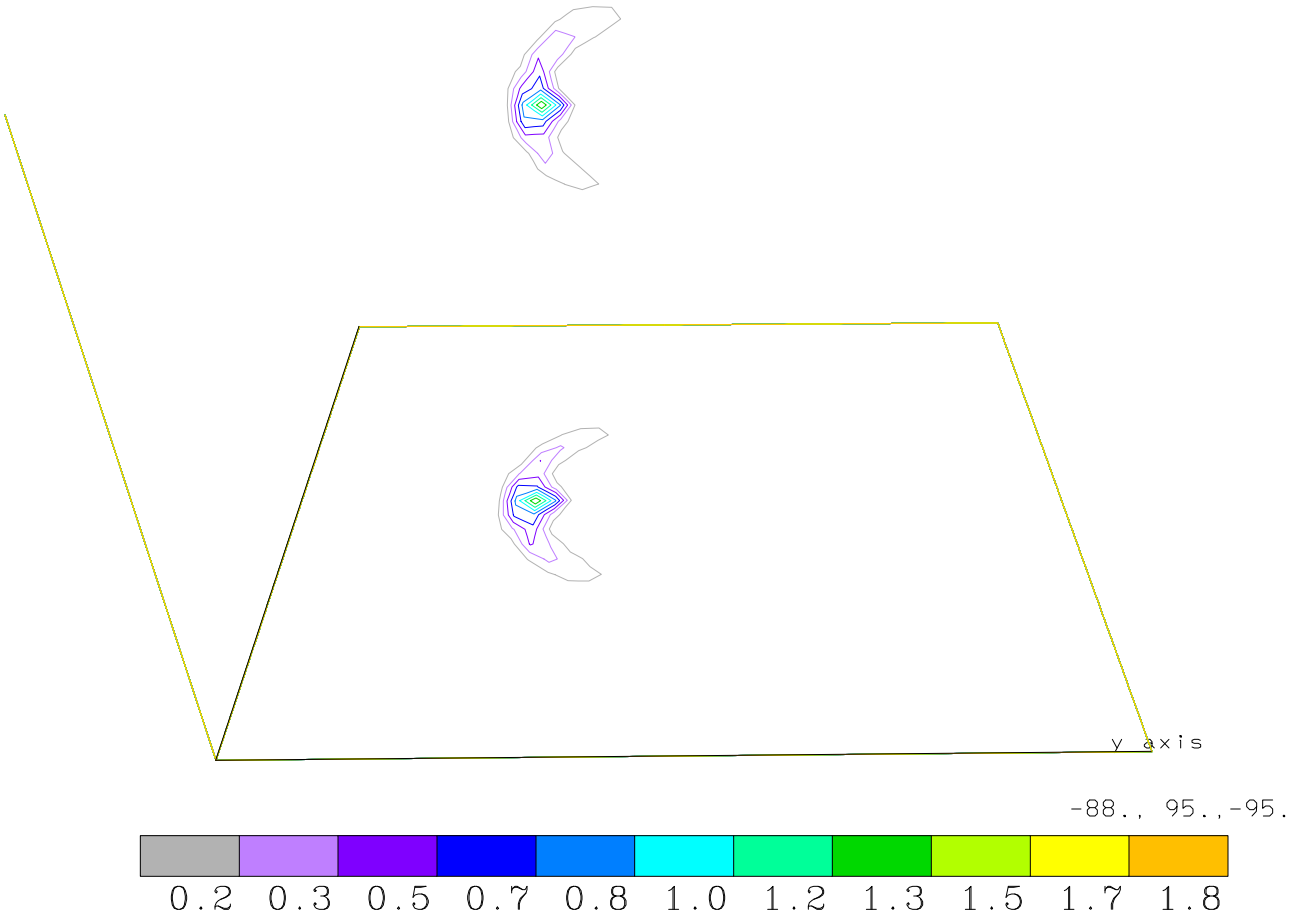
epresq t ut = 0.38

units 2.00E-01 min 0.00E+00 max 2.99E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



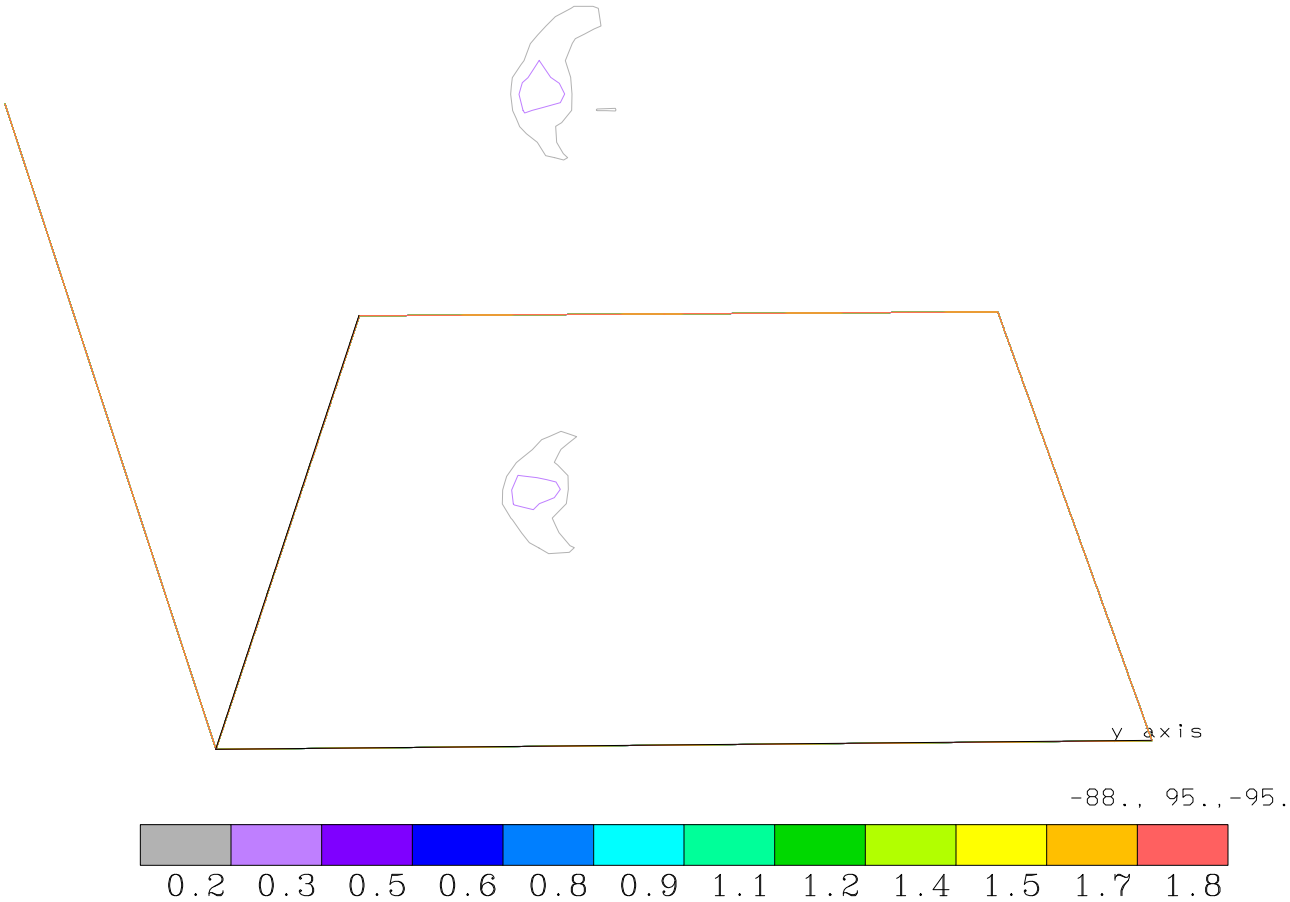
q temph ut = 0.38

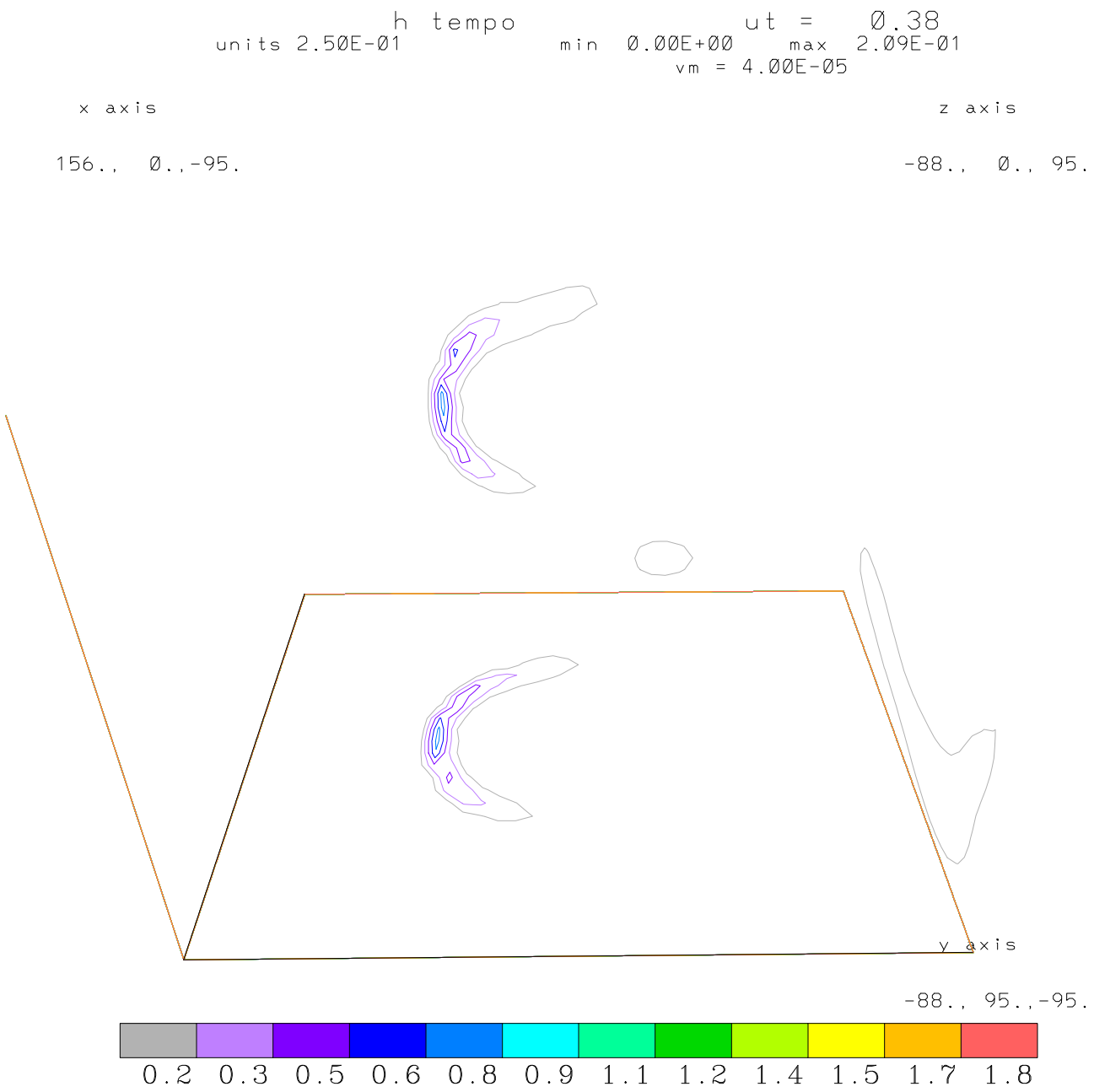
units 2.50E-01 min 0.00E+00 max 1.08E-01

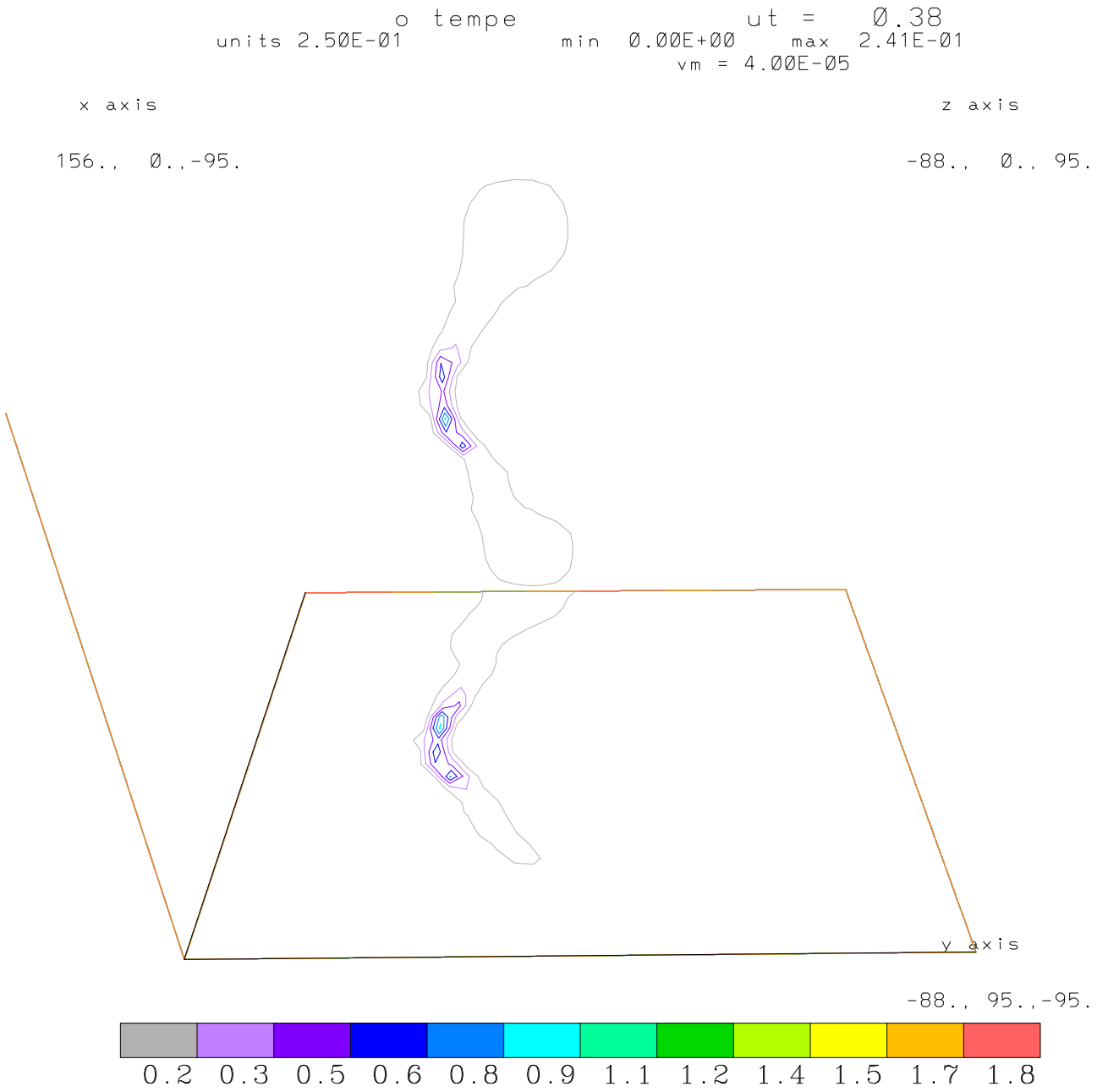
vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.




h tempo
ut = 0.38
units 2.50E-01
min 0.00E+00
max 2.09E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 0.38
units 2.50E-01
min 0.00E+00
max 2.41E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2
0.3
0.5
0.6
0.8
0.9
1.1
1.2
1.4
1.5
1.7
1.8

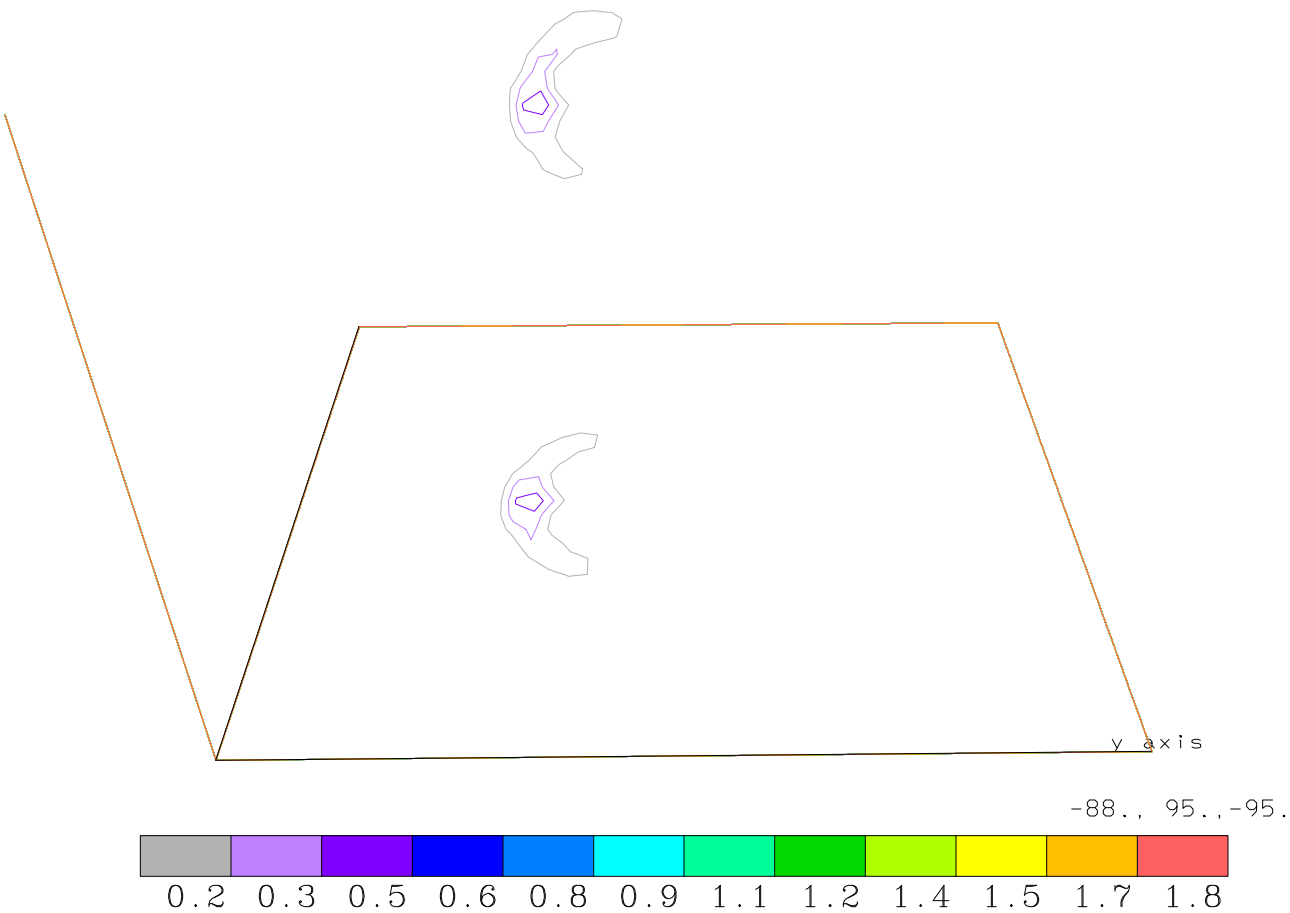
e tempq ut = 0.38

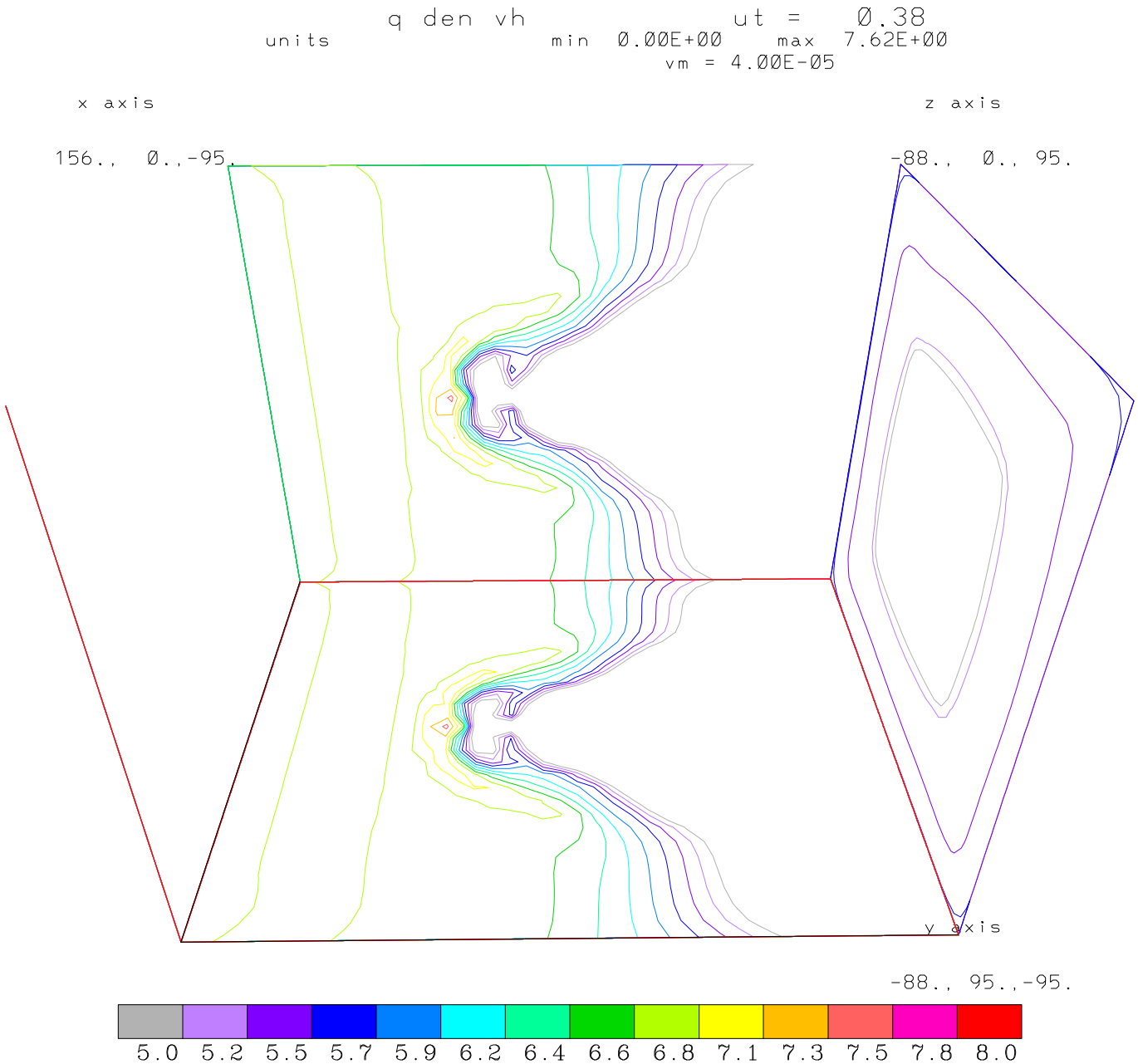
units 1.12E-01 min 0.00E+00 max 6.34E-02

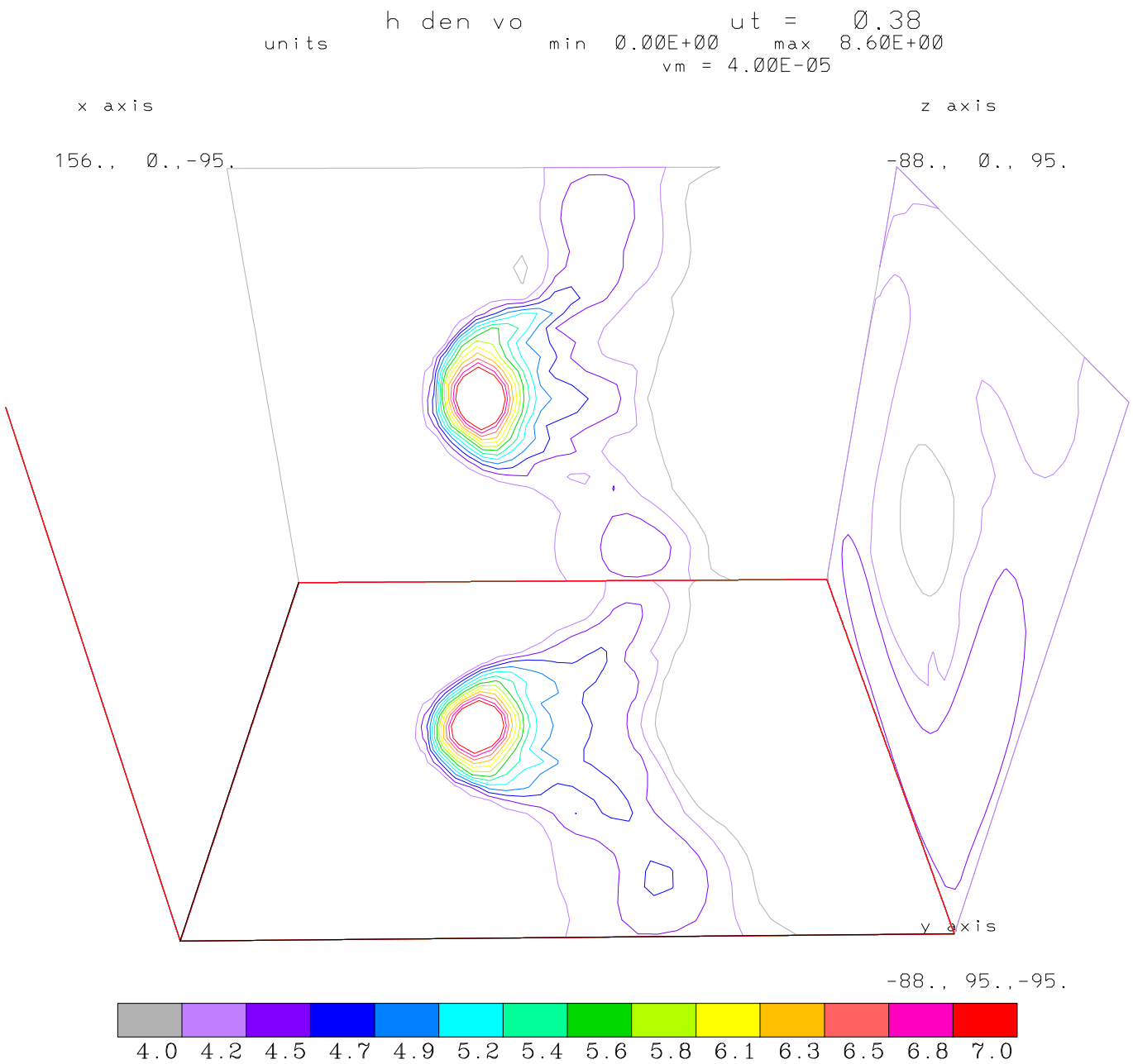
vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.




q den vh
ut = 0.38
units
min 0.00E+00
max 7.62E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 0.38
units min 0.00E+00 max 8.60E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

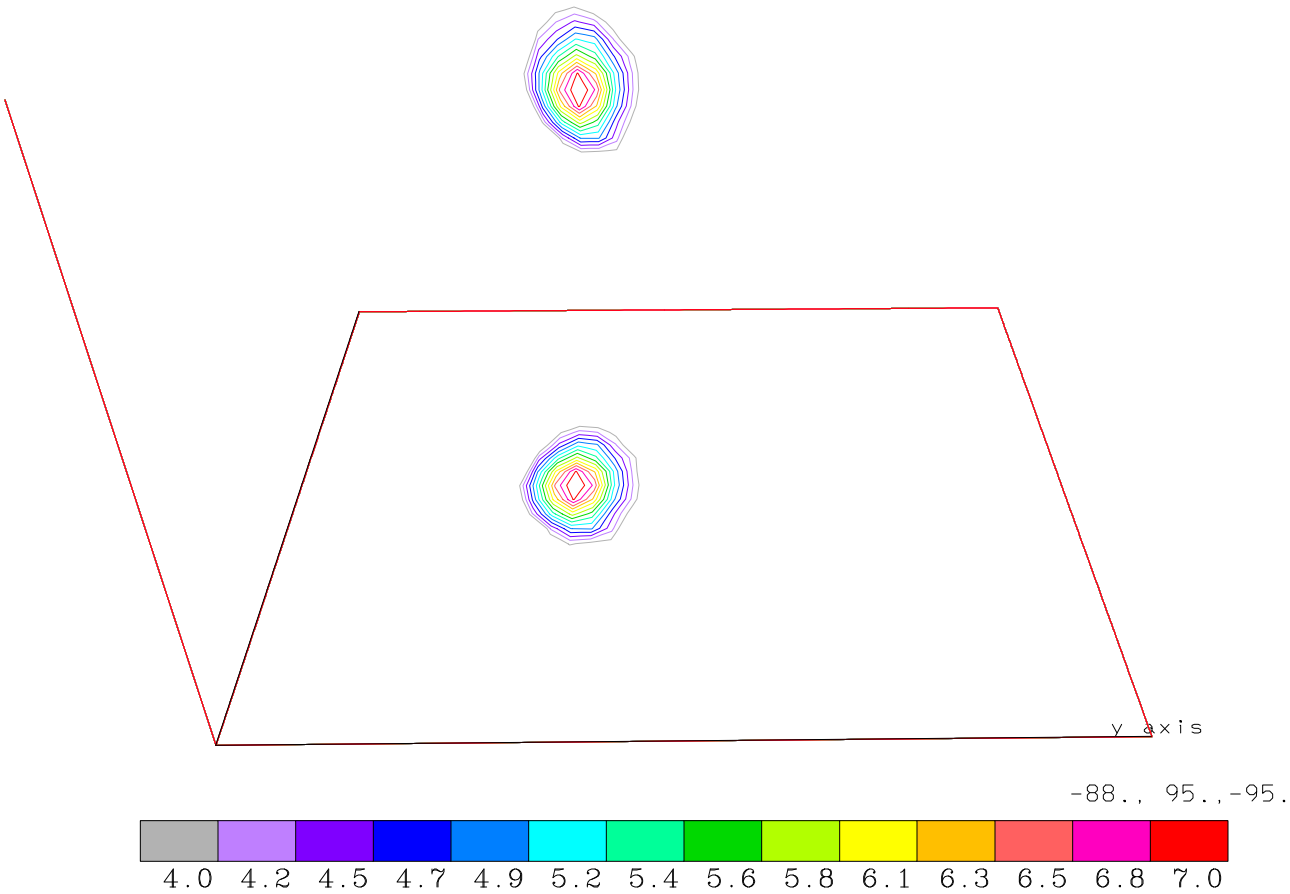
o den vt ut = 0.38

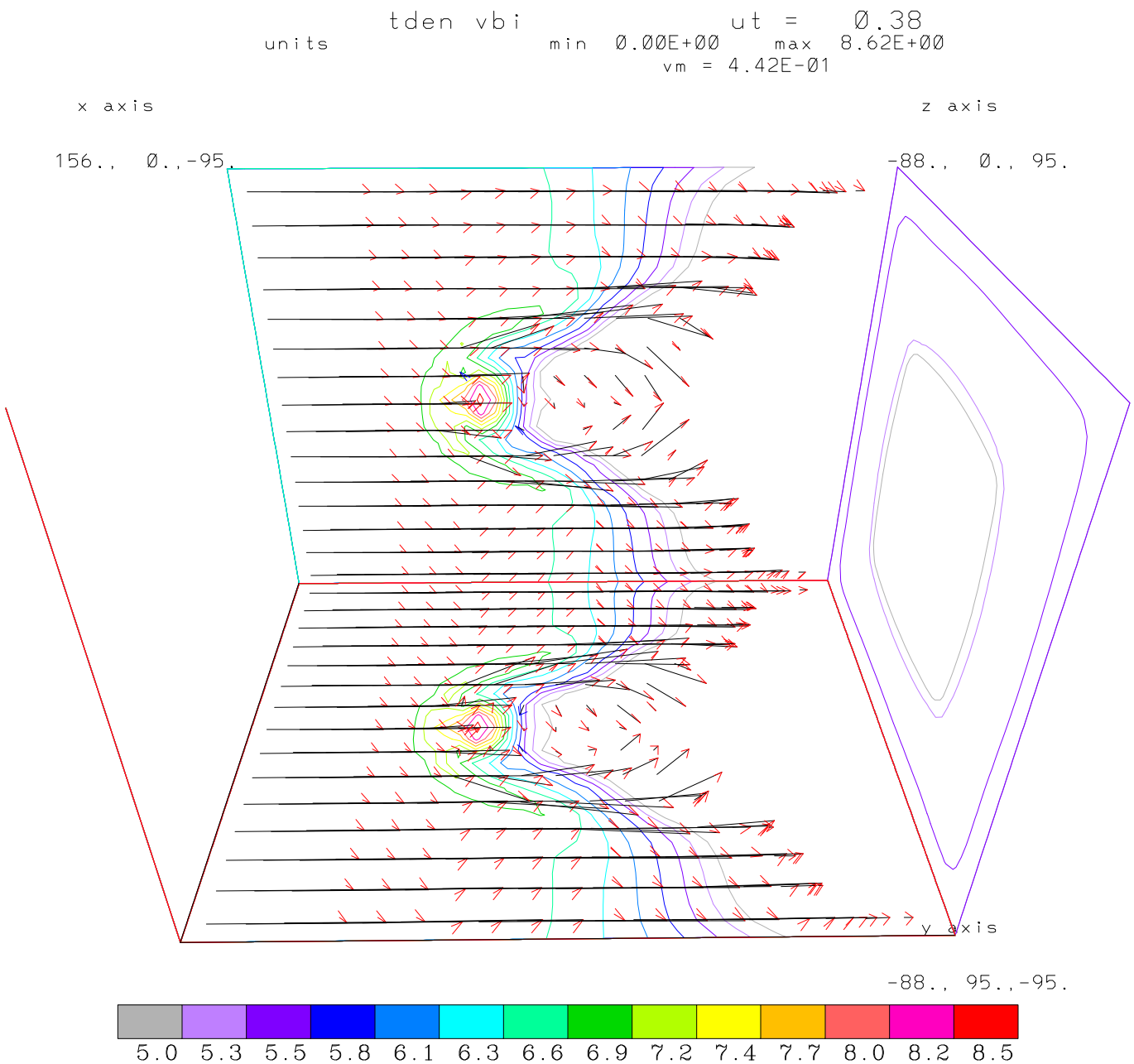
units min 0.00E+00 max 7.30E+00

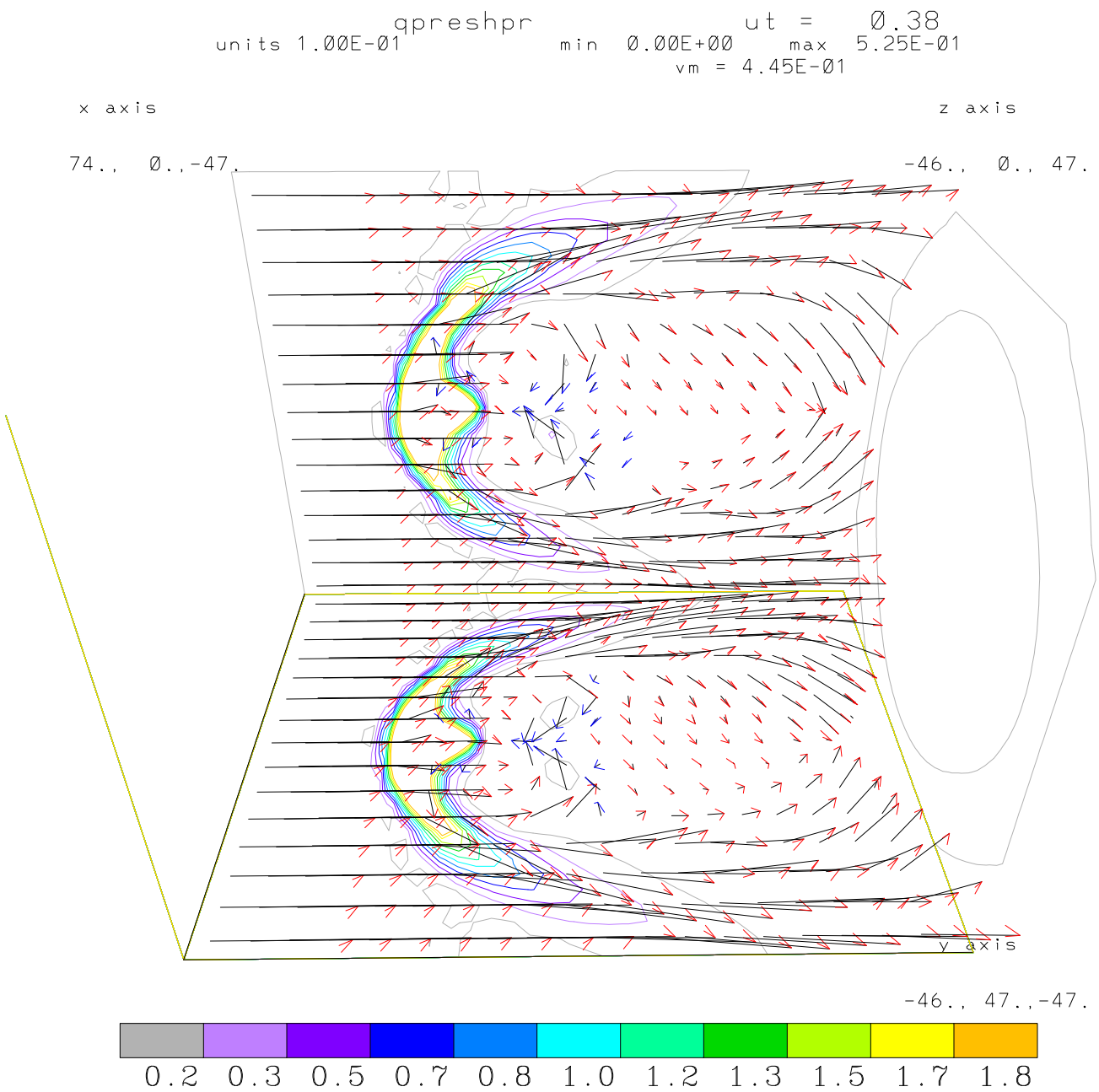
vm = 4.00E-05

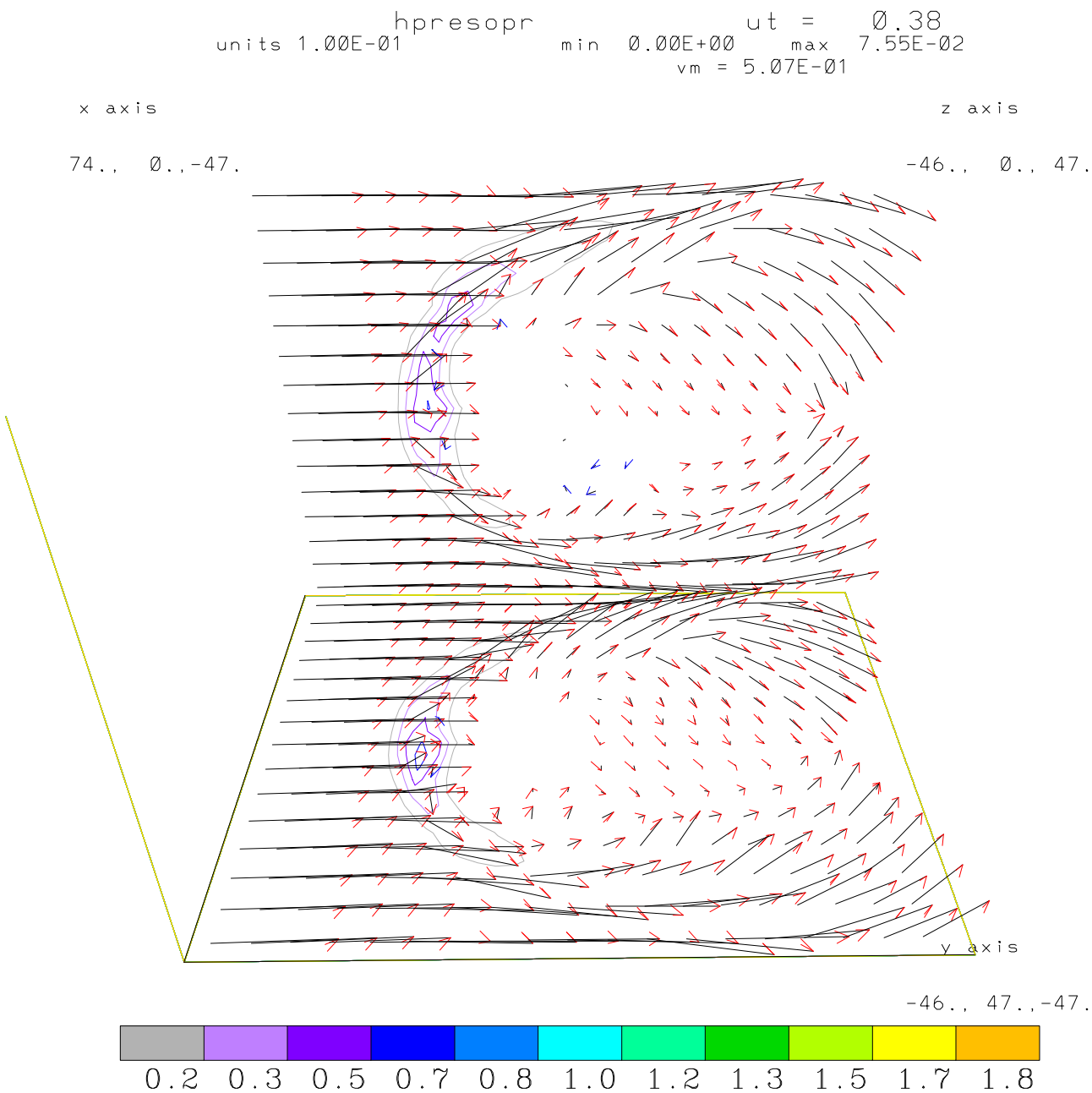
x axis z axis

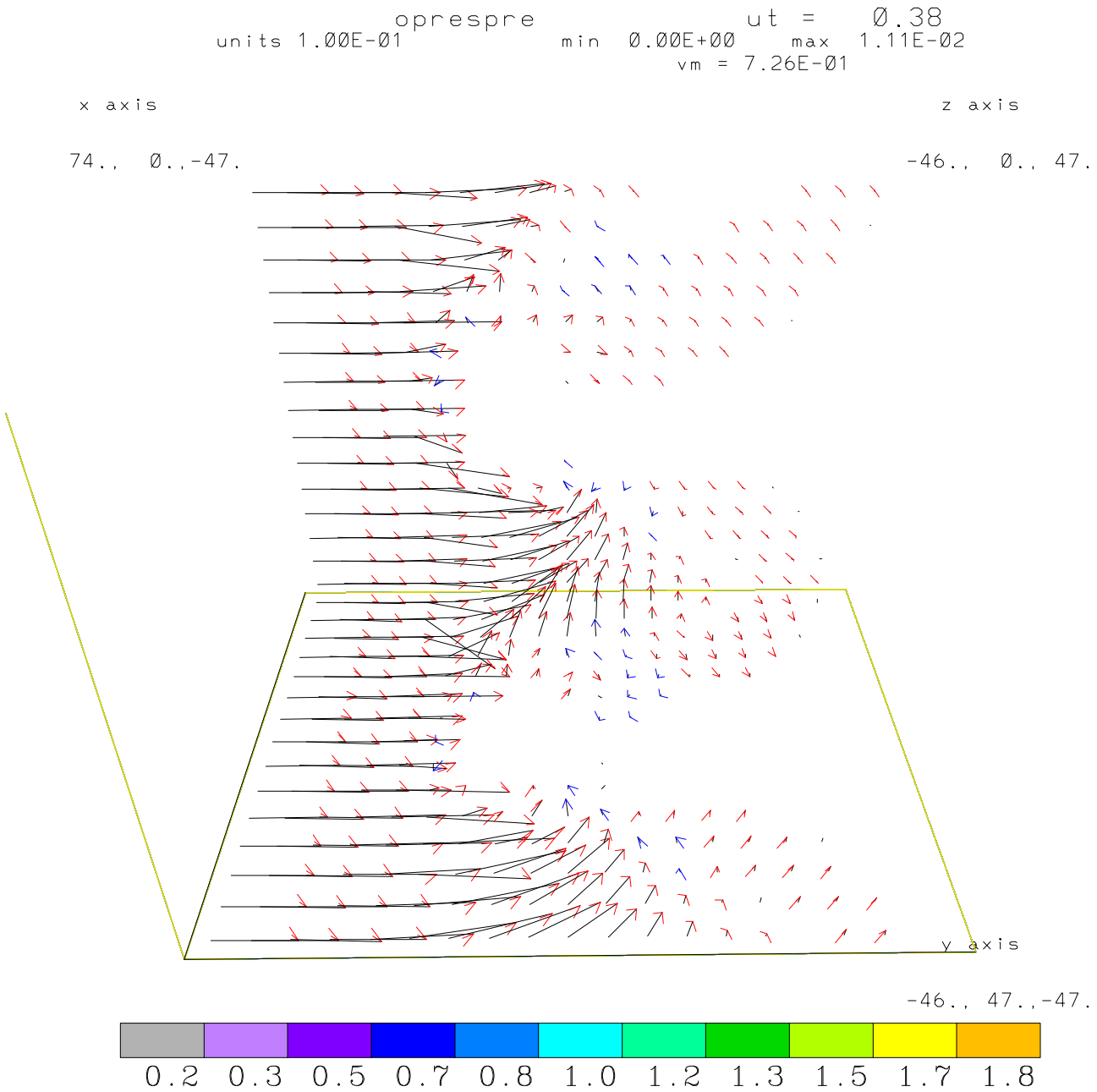
156., 0.,-95. -88., 0., 95.

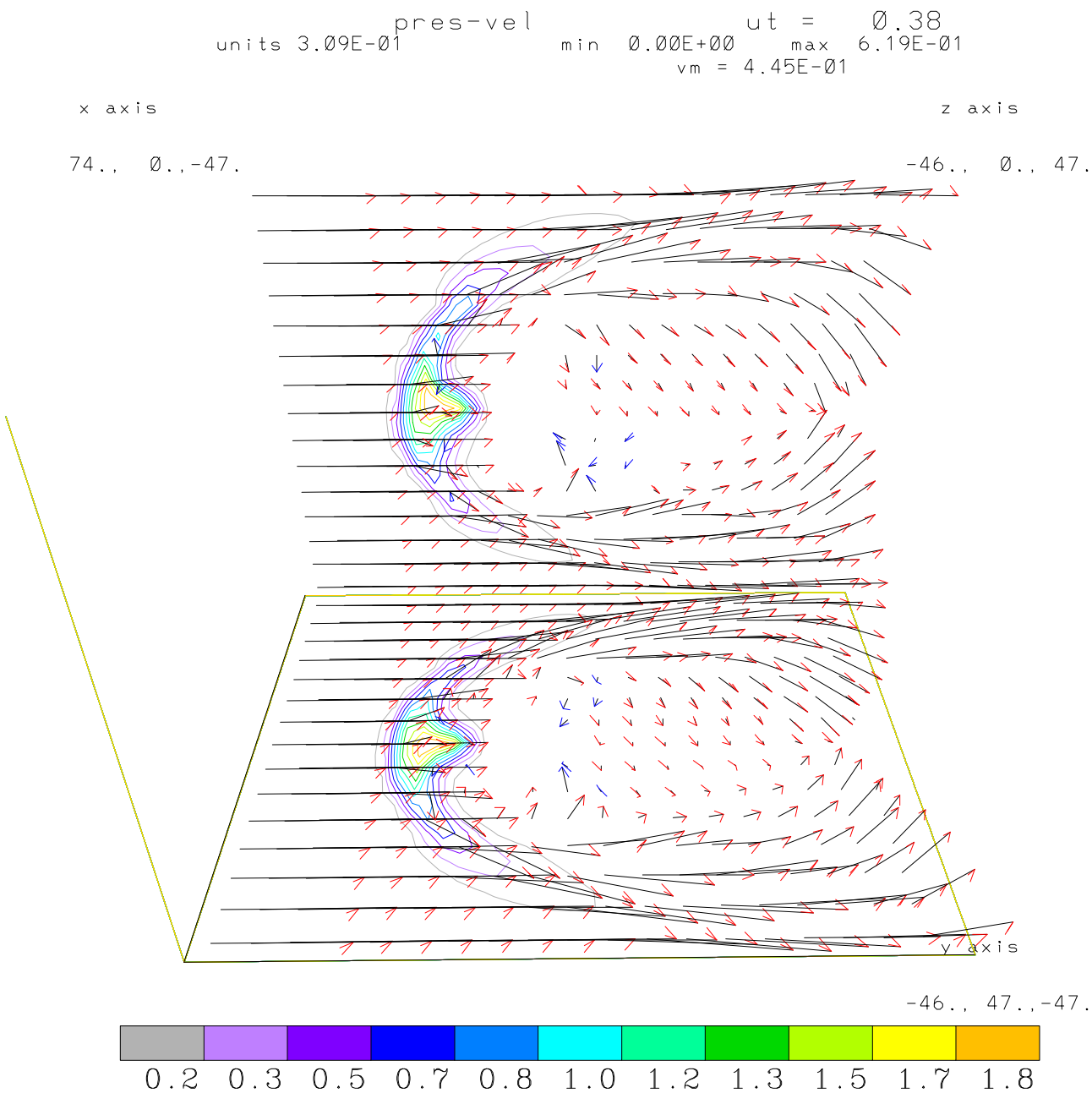



tden vbi
ut = 0.38
units
min 0.00E+00
max 8.62E+00
vm = 4.42E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 0.38
units 1.00E-01
min 0.00E+00
max 5.25E-01
vm = 4.45E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 0.38
units 1.00E-01
min 0.00E+00
max 7.55E-02
vm = 5.07E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 0.38
units 1.00E-01
min 0.00E+00
max 1.11E-02
vm = 7.26E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.38
units 3.09E-01
min 0.00E+00
max 6.19E-01
vm = 4.45E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

box 2 : dawn dusk ut = 0.38

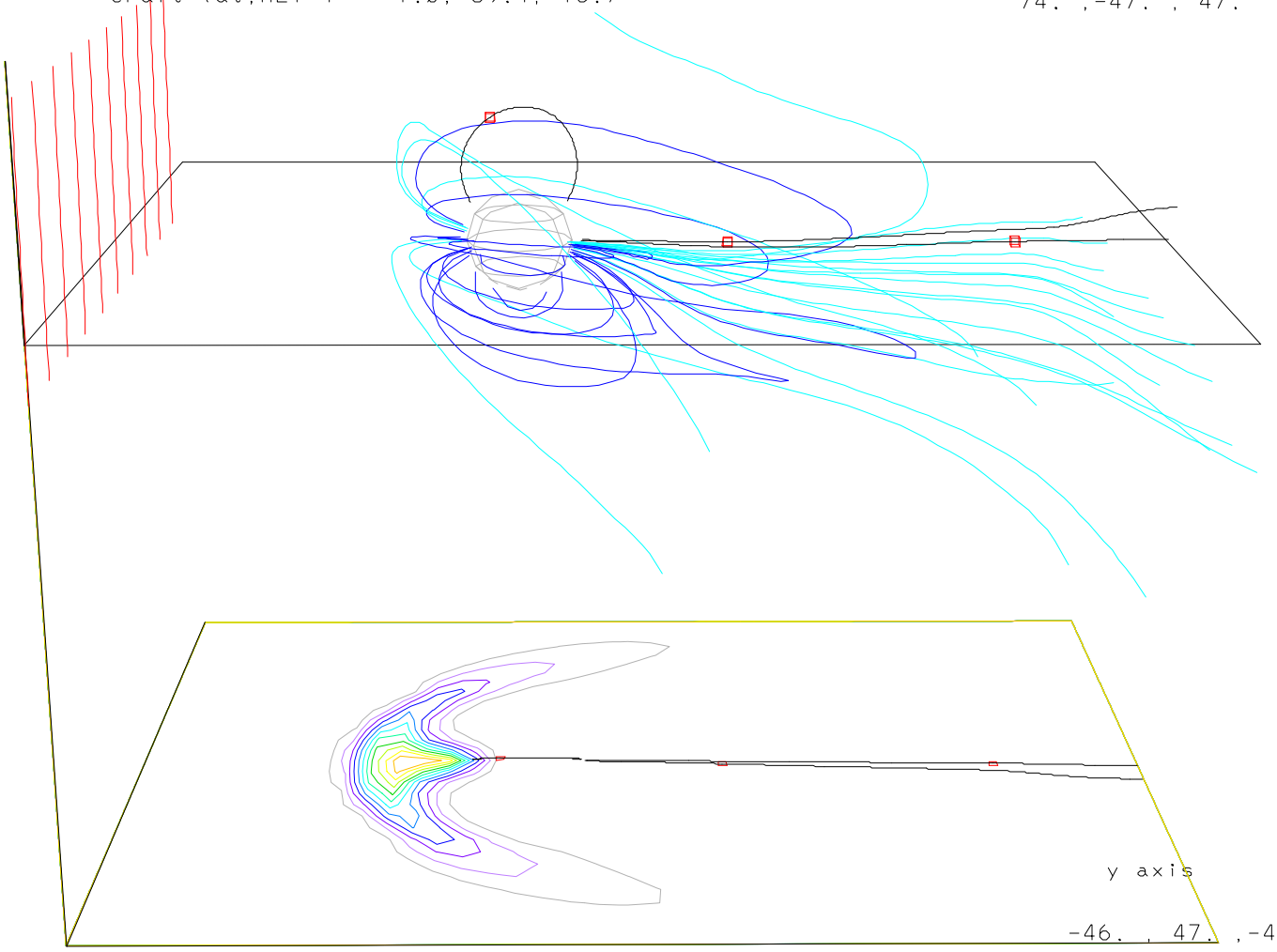
units 3.10E-01 min 8.09E-04 max 6.19E-01

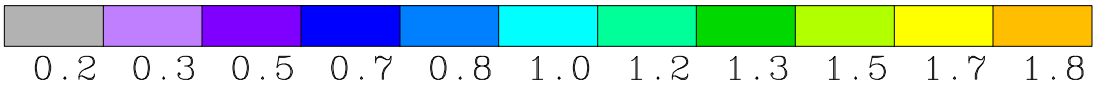
vm = 4.00E-05

craft lat,MLT 2 1.0,-67.7, 0.2
craft lat,MLT 2 1.0, 68.0, 0.2
craft lat,MLT 3 1.0,-89.1, 18.5
craft lat,MLT 4 1.0,-89.4, 13.7

z axis

74. ,-47. , 47.





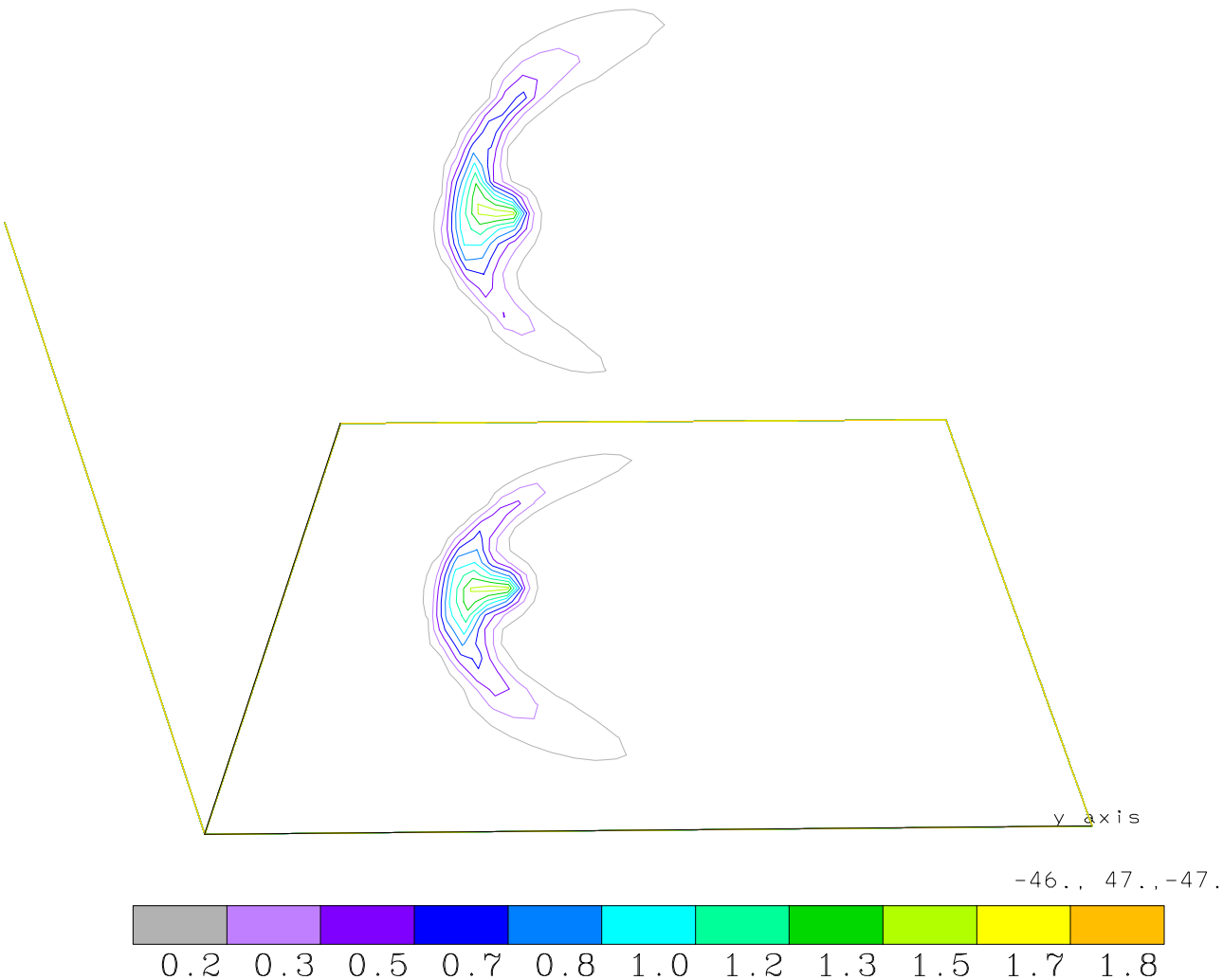
epresq t ut = 0.38

units 2.00E-01 min 0.00E+00 max 3.21E-01

vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.



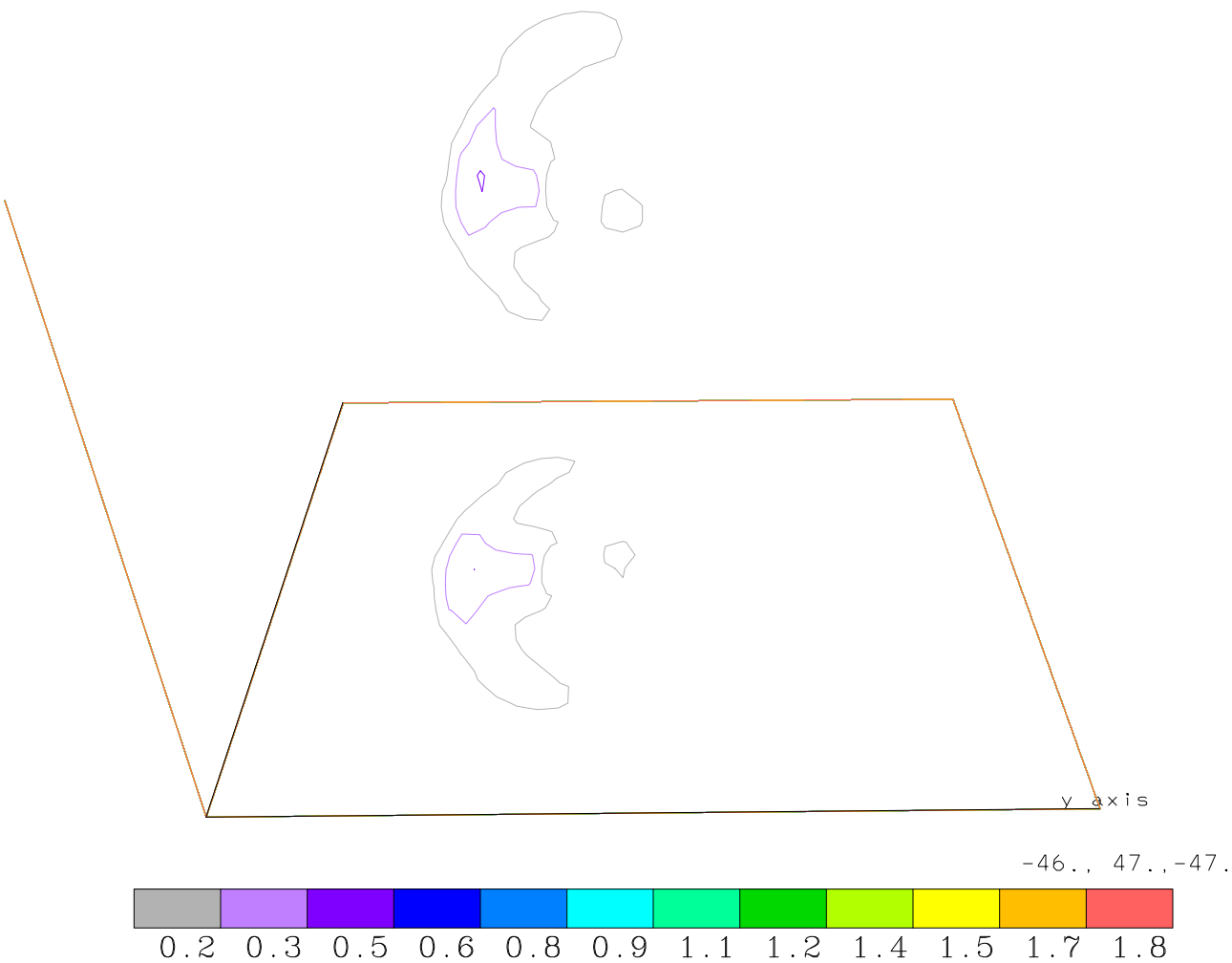
q temph ut = 0.38

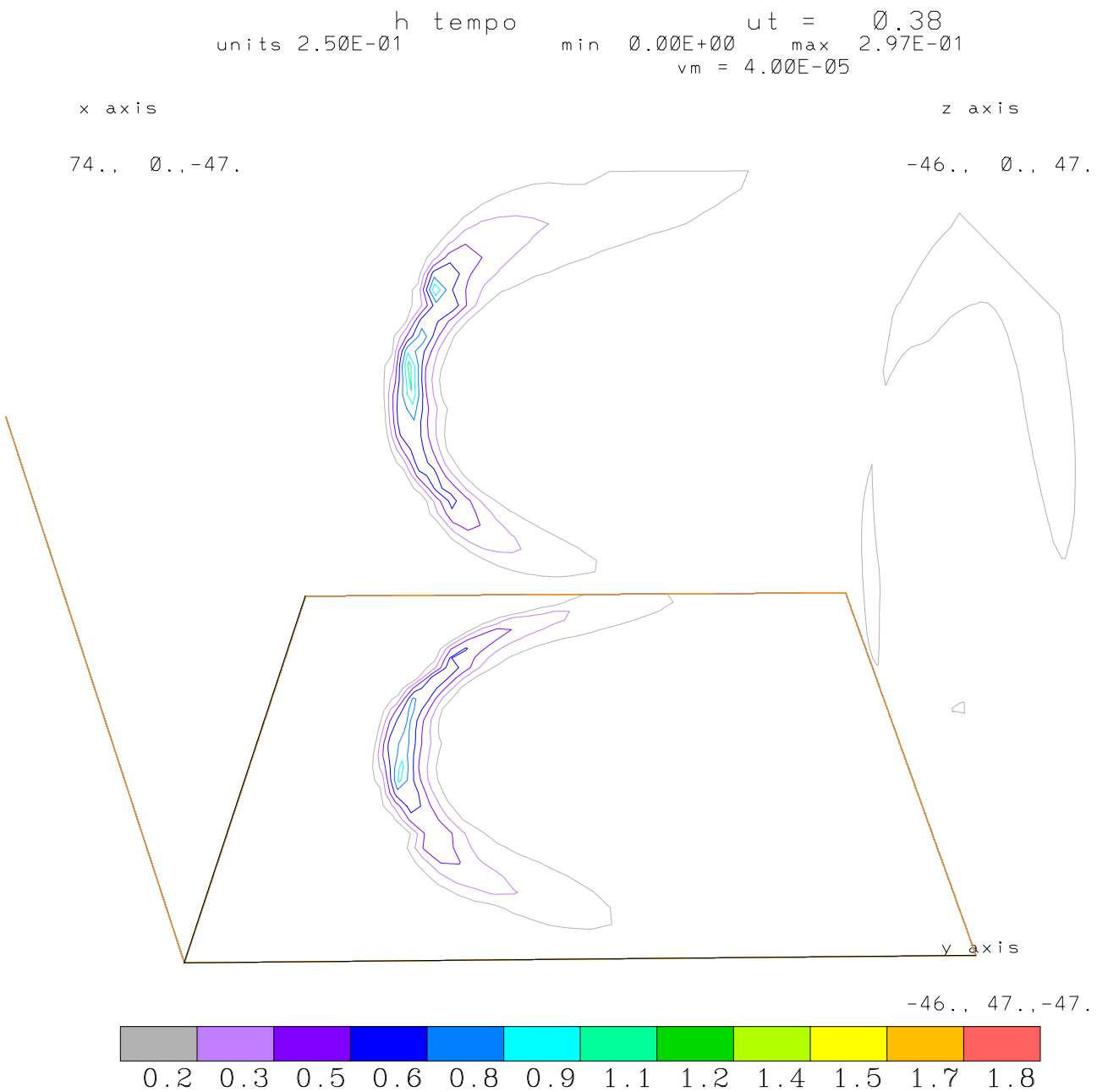
units 2.50E-01 min 0.00E+00 max 1.19E-01

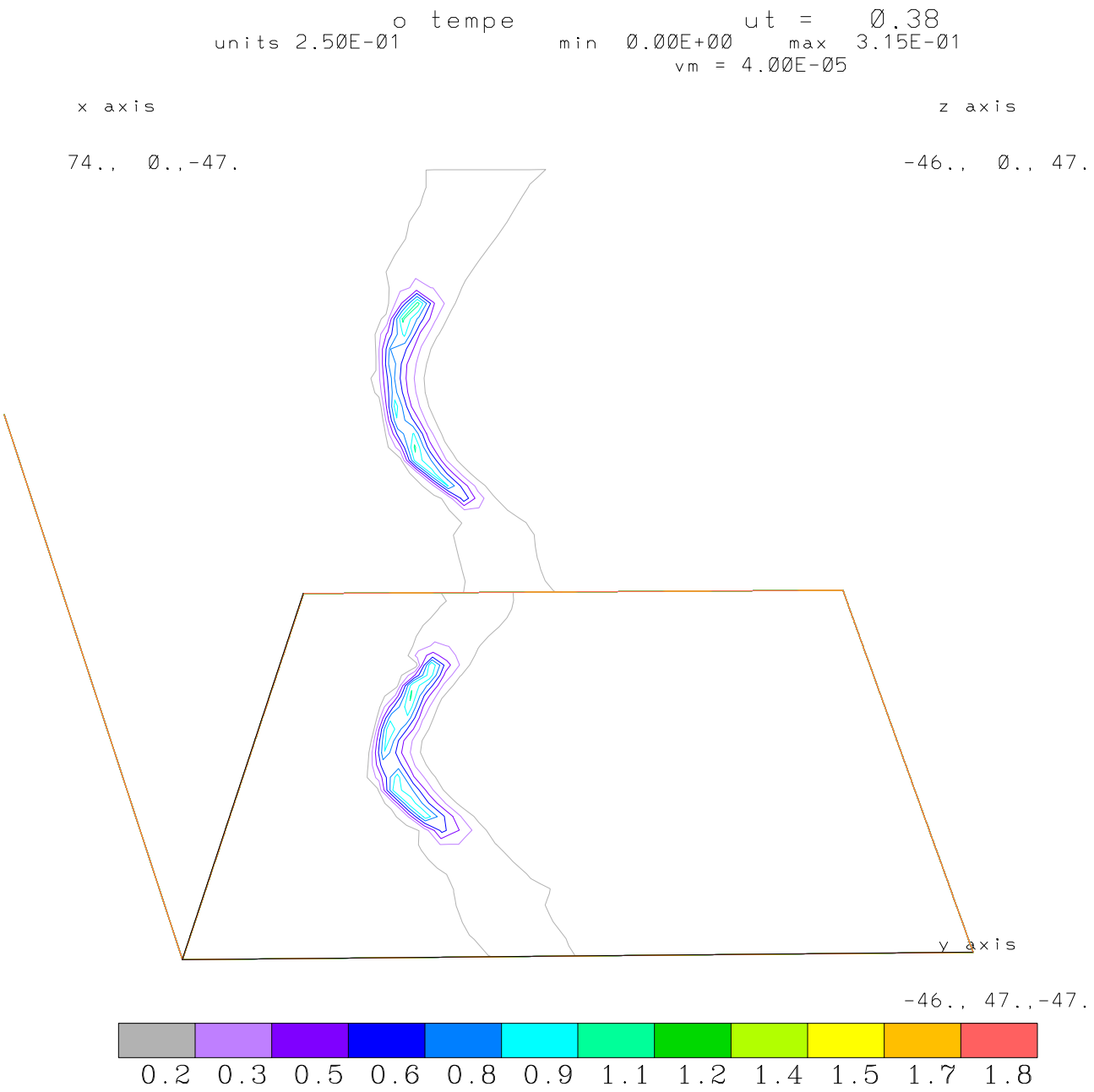
vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.




h tempo
ut = 0.38
units 2.50E-01
min 0.00E+00
max 2.97E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 0.38
units 2.50E-01
min 0.00E+00
max 3.15E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

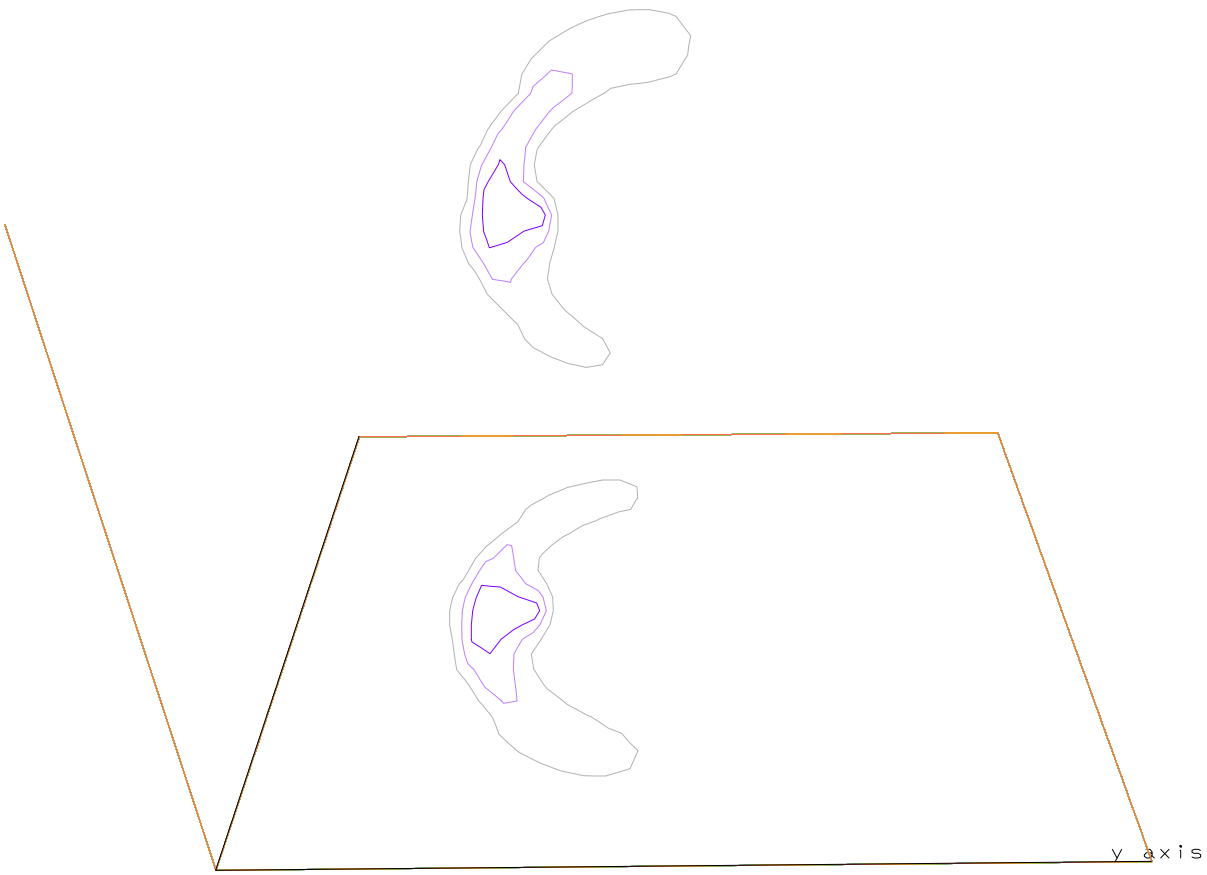
e tempq ut = 0.38

units 1.12E-01 min 0.00E+00 max 6.71E-02

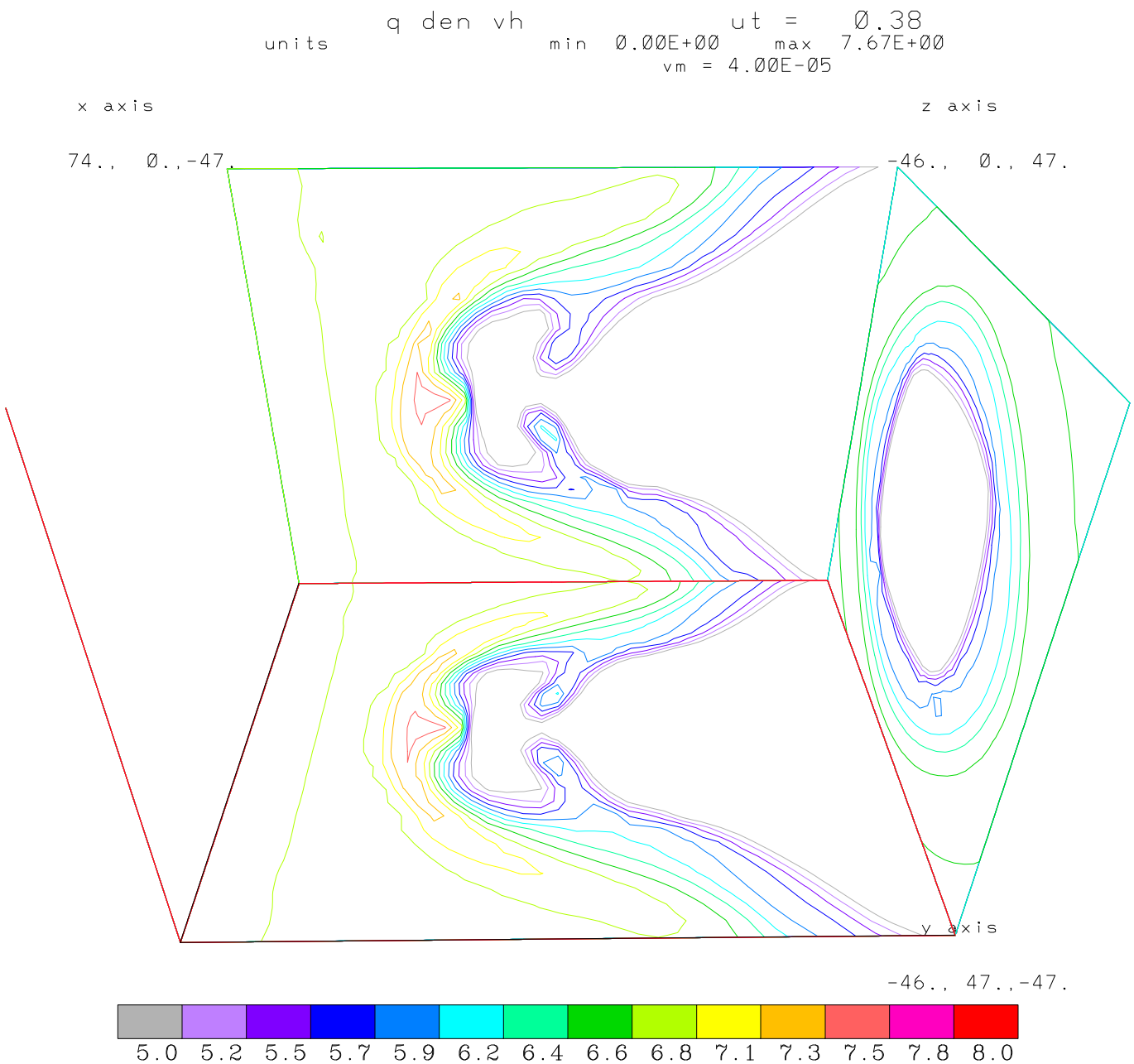
vm = 4.00E-05

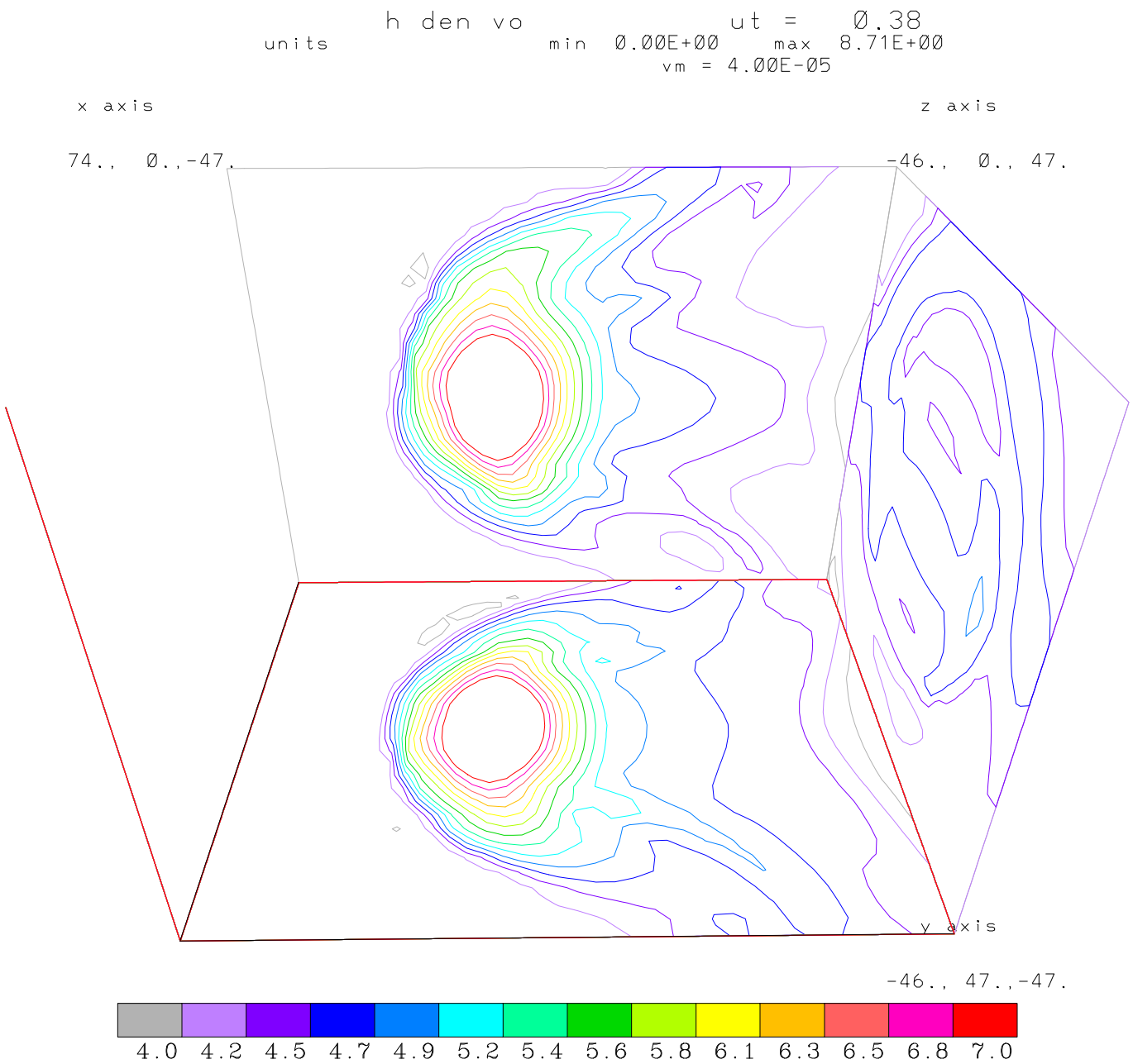
x axis z axis

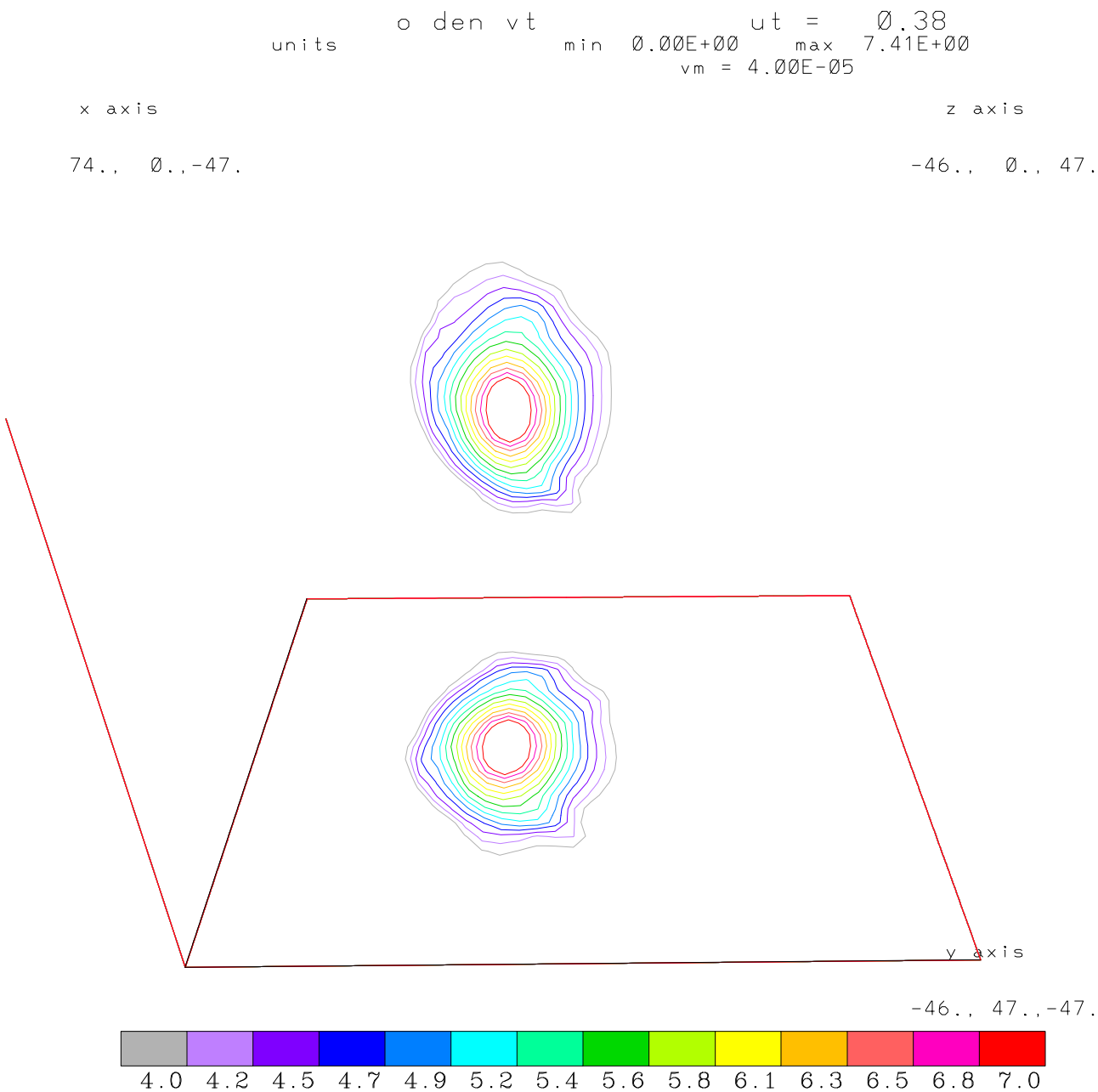
74., 0.,-47. -46., 0., 47.

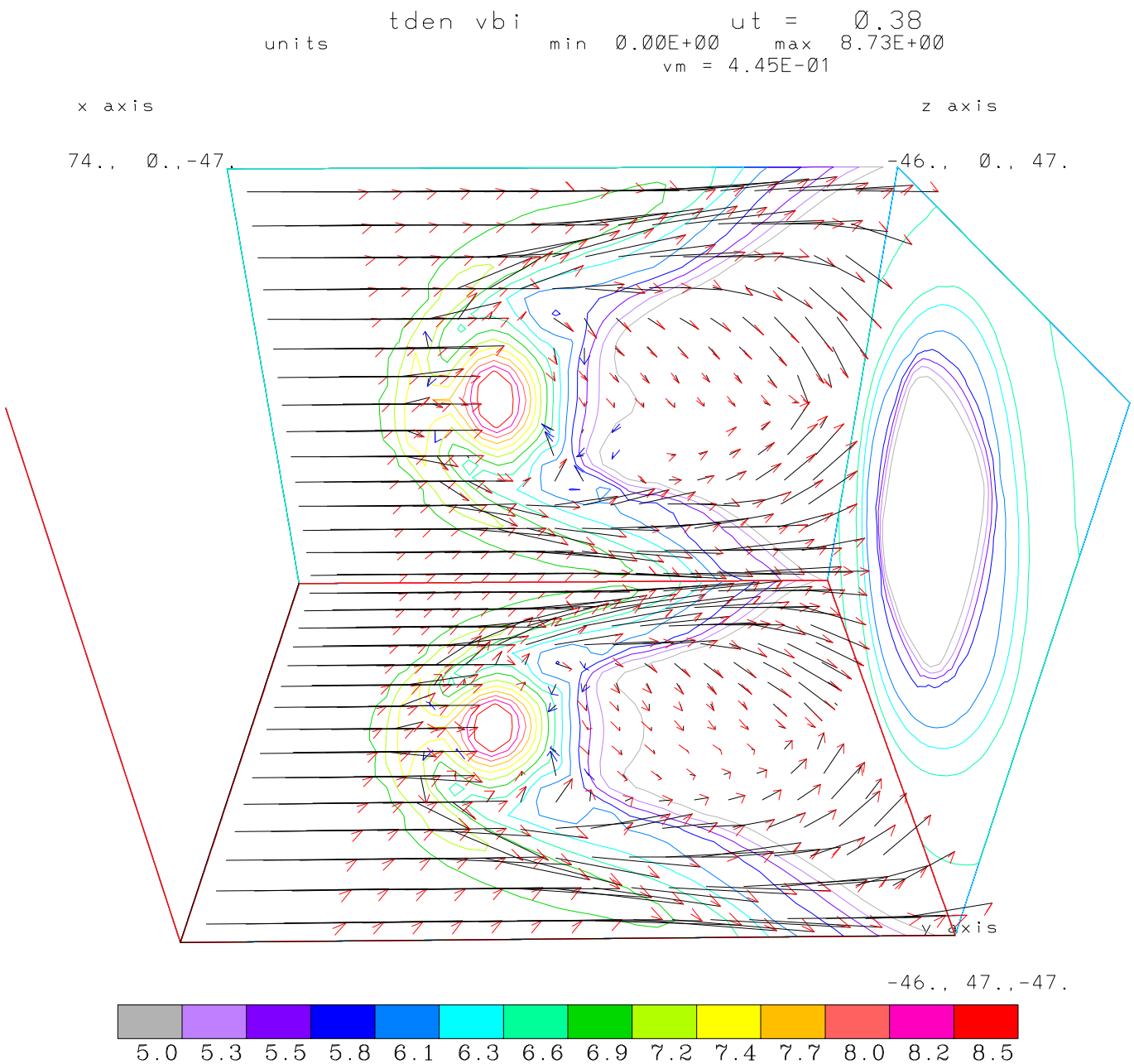


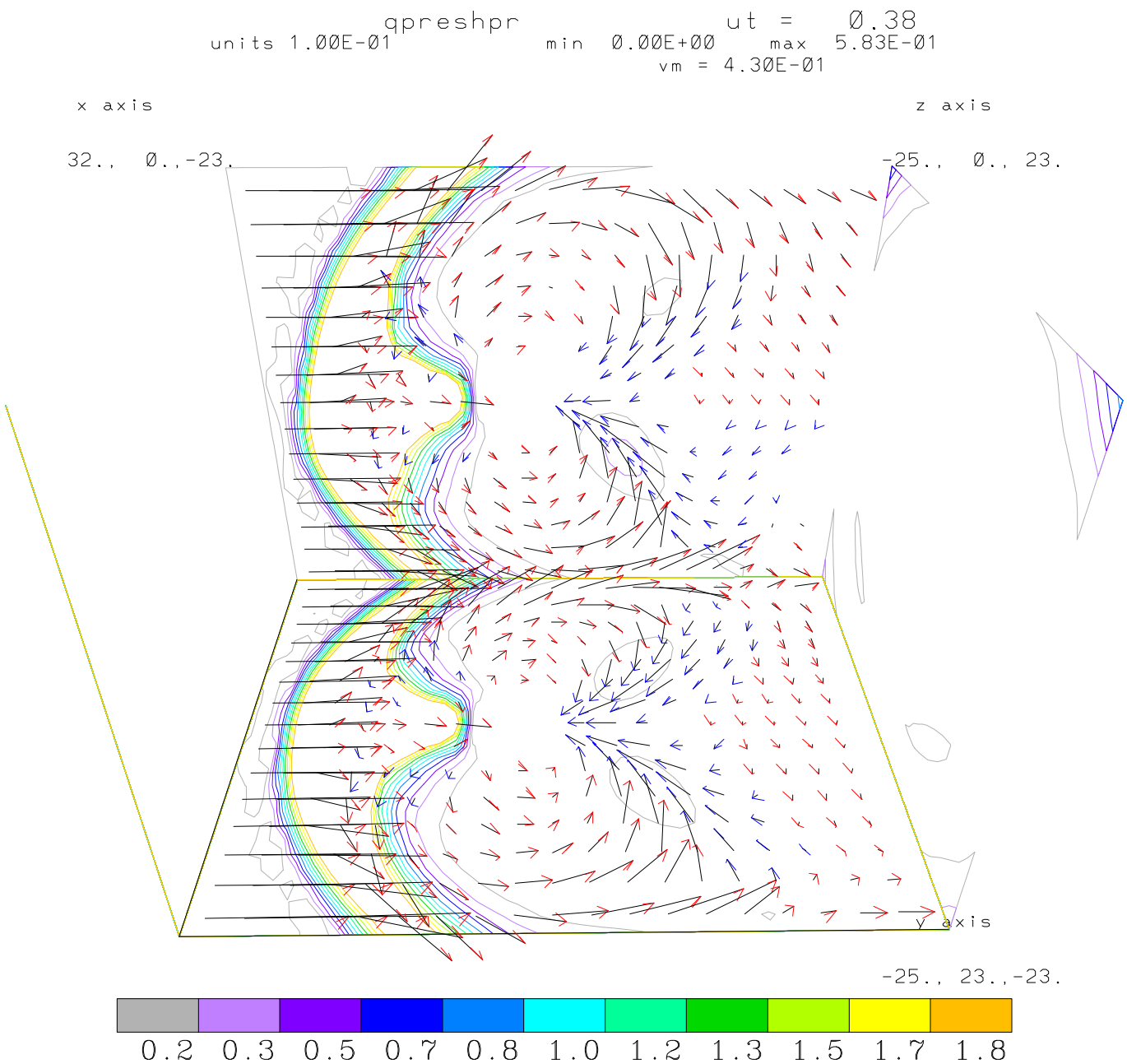
-46., 47.,-47.

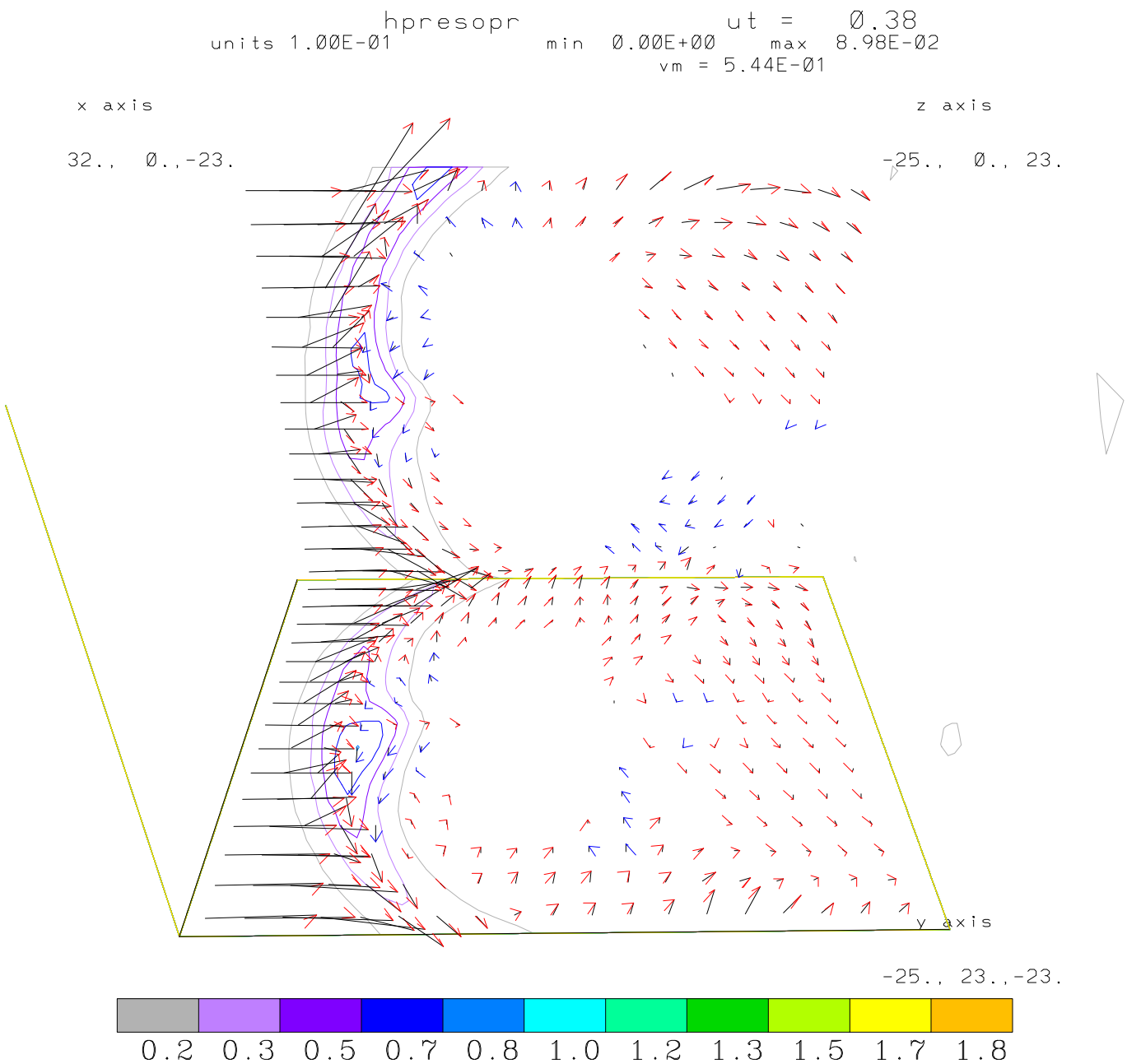

q den vh
ut = 0.38
units
min 0.00E+00
max 7.67E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0

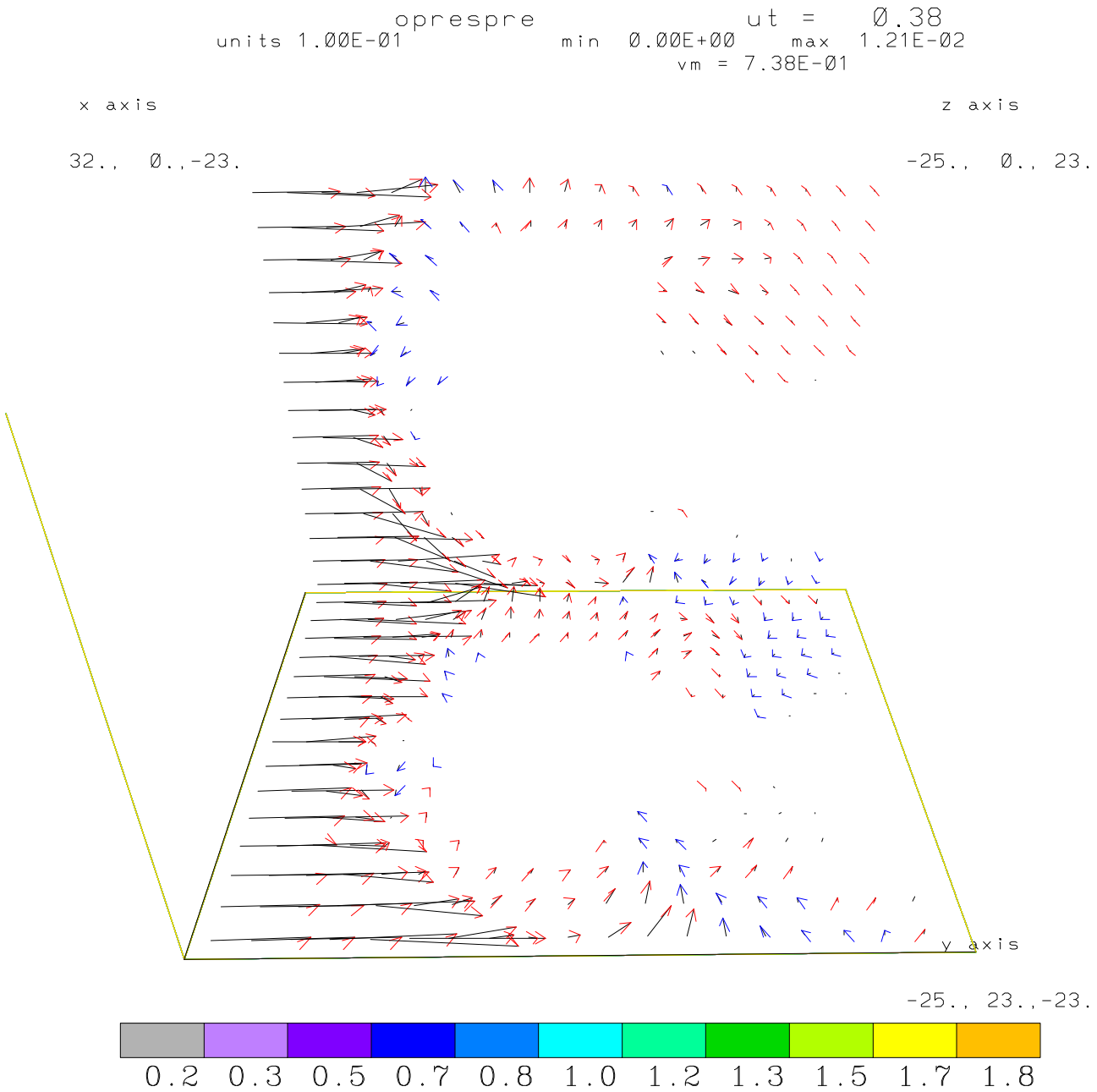

h den vo ut = 0.38
units min 0.00E+00 max 8.71E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

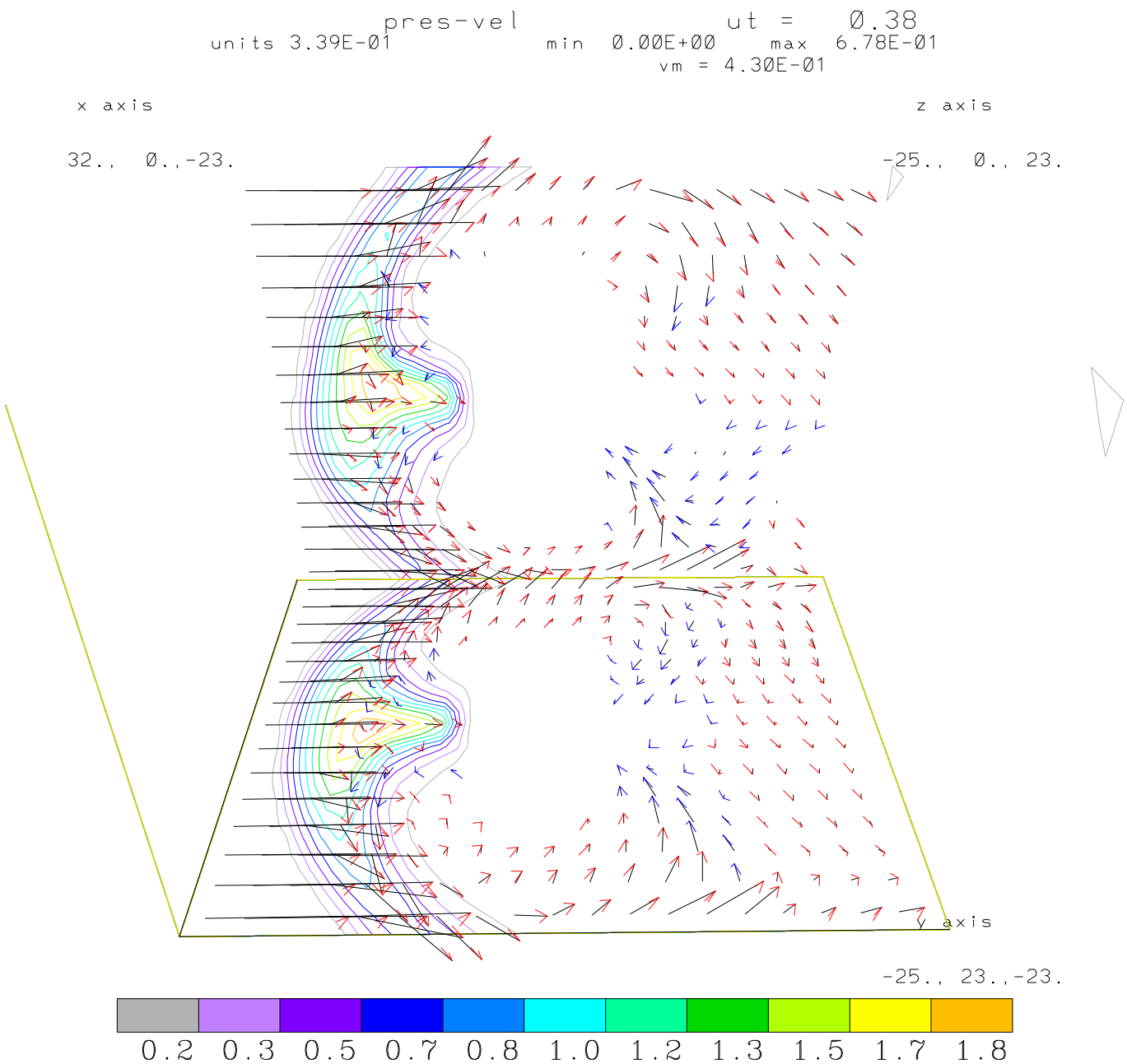

o den vt
ut = 0.38
units
min 0.00E+00
max 7.41E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

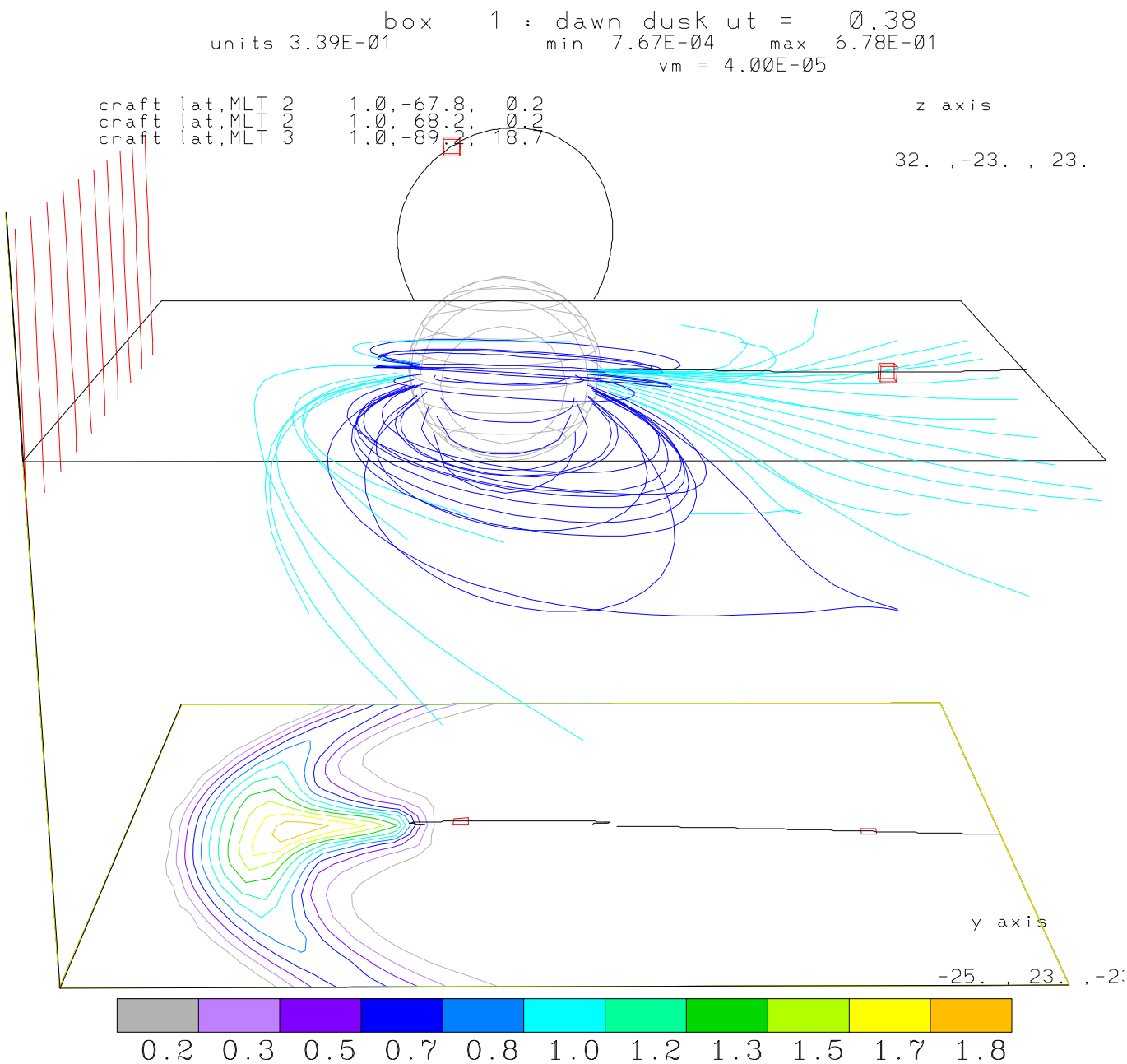

tden vbi
ut = 0.38
units
min 0.00E+00
max 8.73E+00
vm = 4.45E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5

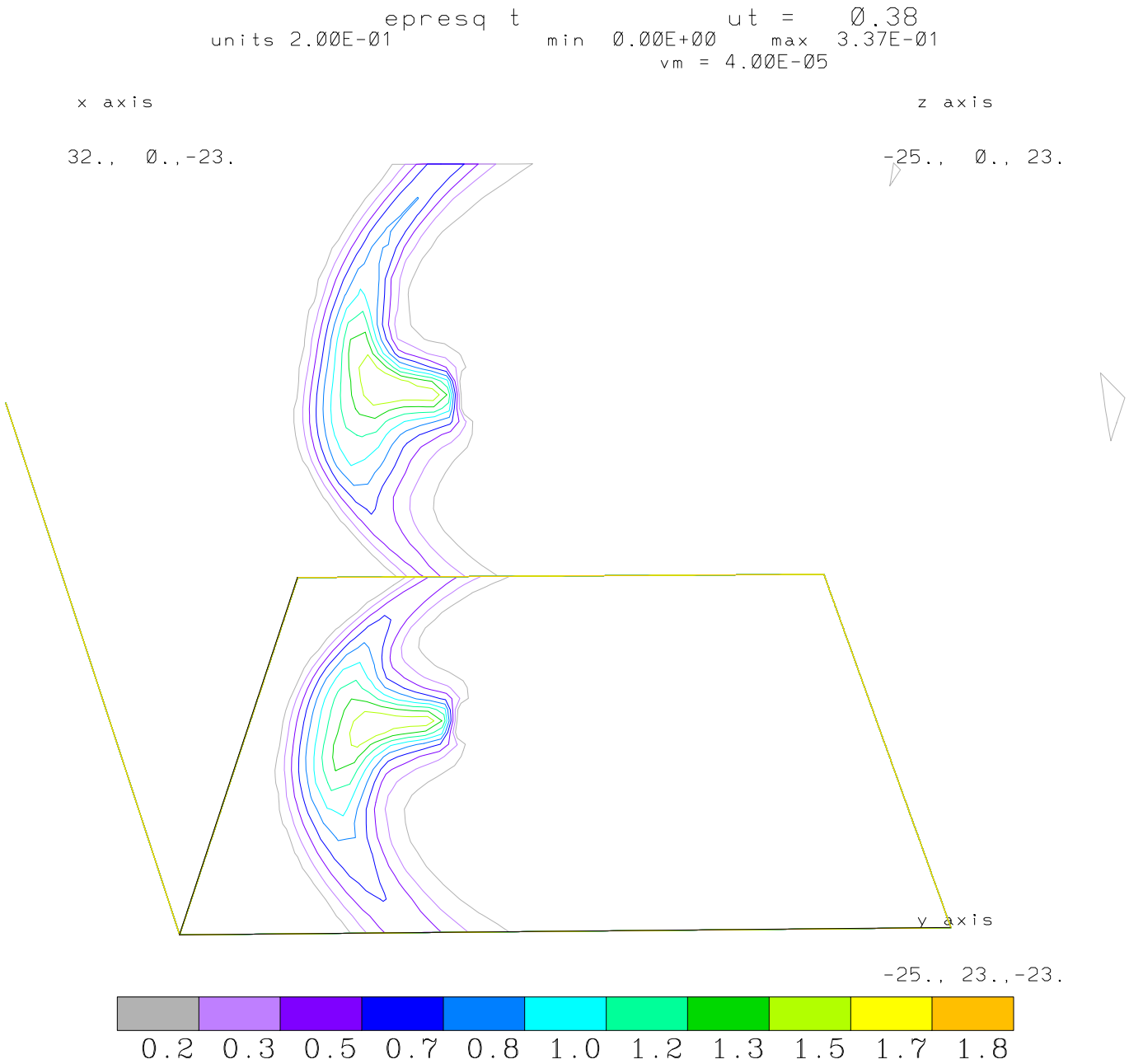

qpreshpr
ut = 0.38
units 1.00E-01
min 0.00E+00
max 5.83E-01
vm = 4.30E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

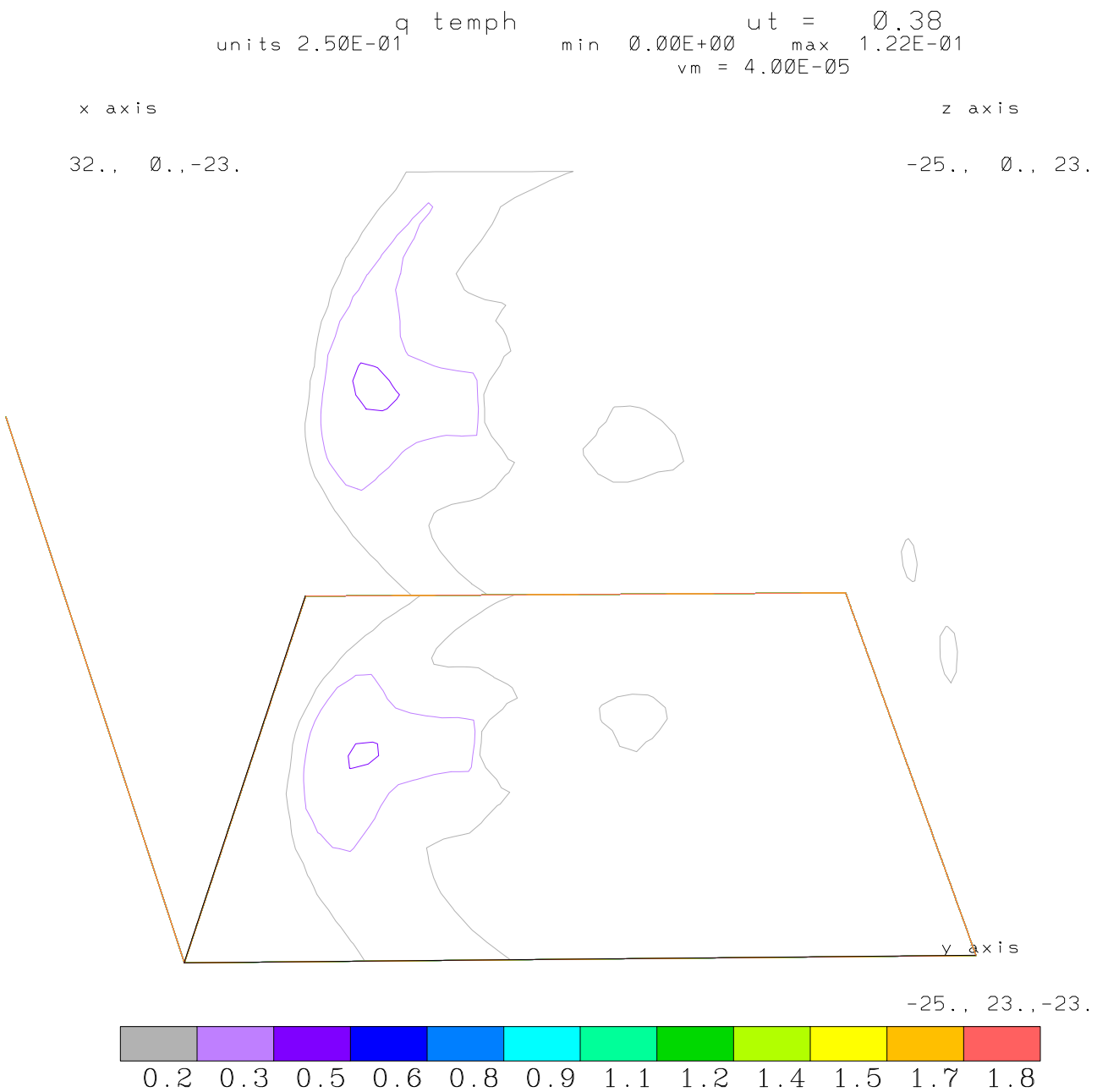

hpresopr
ut = 0.38
units 1.00E-01
min 0.00E+00
max 8.98E-02
vm = 5.44E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

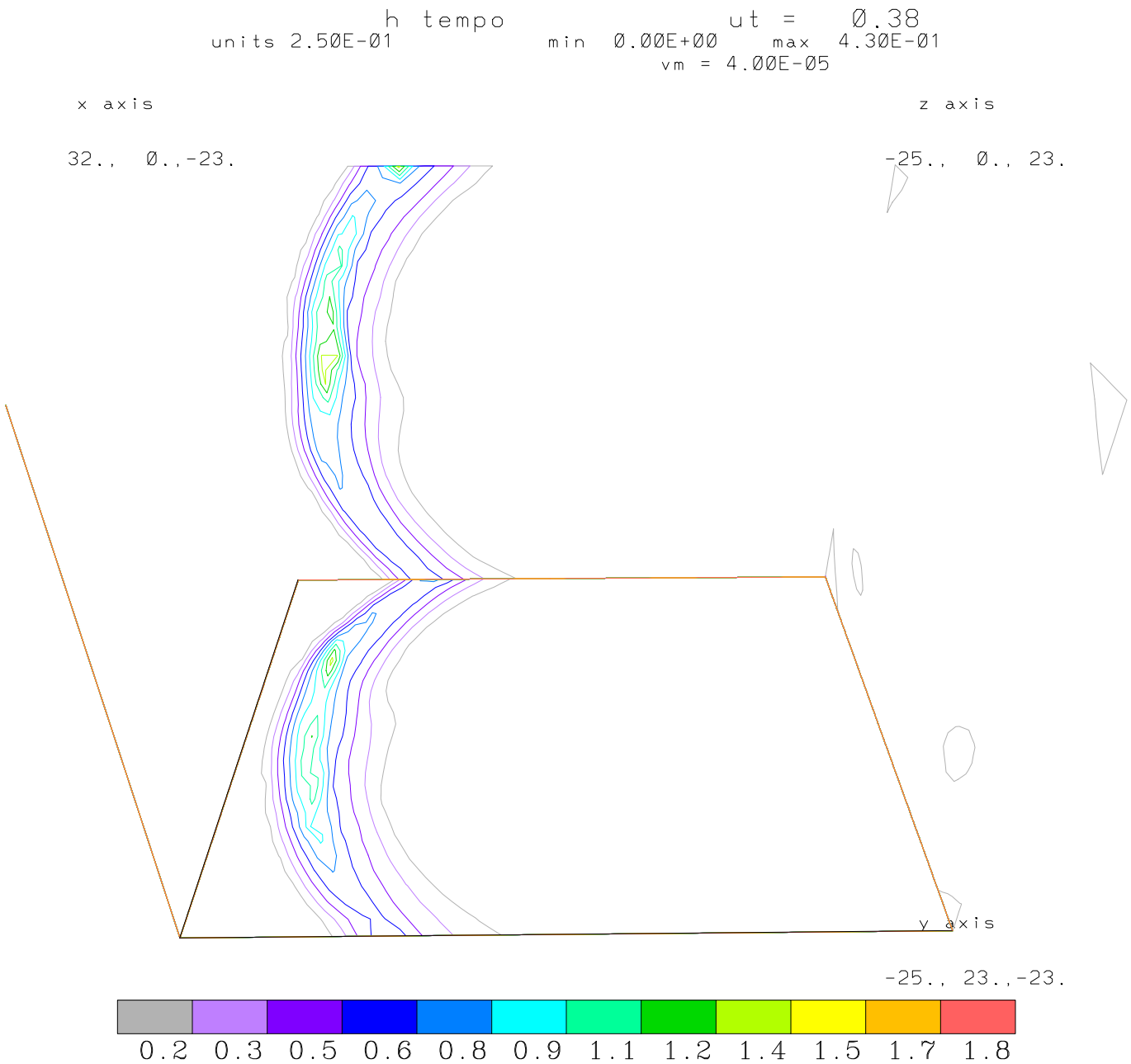

oprespre
ut = 0.38
units 1.00E-01
min 0.00E+00
max 1.21E-02
vm = 7.38E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

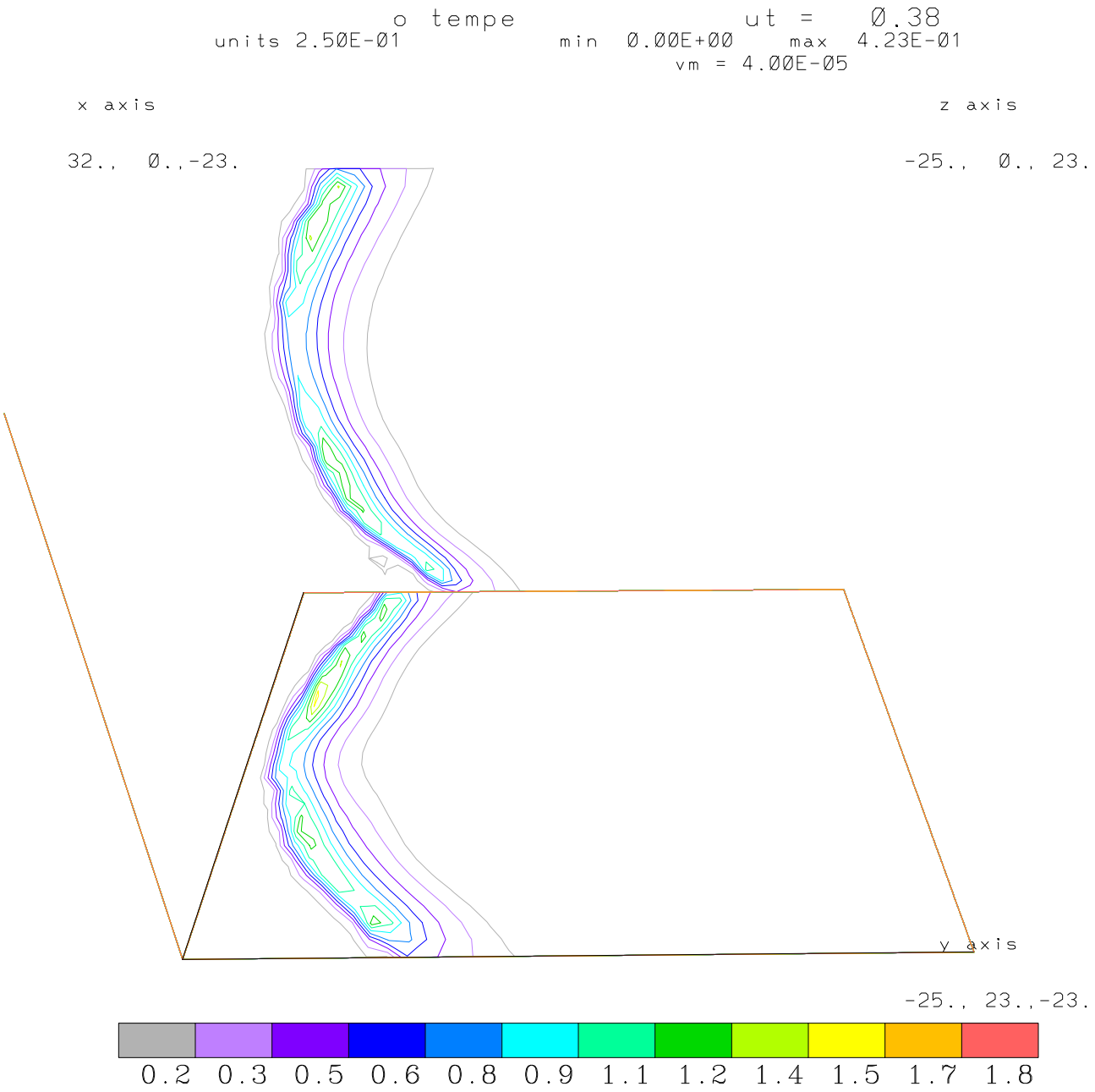

pres-vel
ut = 0.38
units 3.39E-01
min 0.00E+00
max 6.78E-01
vm = 4.30E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 1 : dawn dusk ut = 0.38
units 3.39E-01
min 7.67E-04
max 6.78E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.8, 0.2
craft lat,MLT 2 1.0, 68.2, 0.2
craft lat,MLT 3 1.0,-89.2, 18.7
z axis
32. ,-23. , 23.
y axis
-25. , 23. ,-2
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


epresq t
ut = 0.38
units 2.00E-01
min 0.00E+00
max 3.37E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8


q temph
ut = 0.38
units 2.50E-01
min 0.00E+00
max 1.22E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


h tempo
ut = 0.38
units 2.50E-01
min 0.00E+00
max 4.30E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8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z axis
32., 0.,-23.
-25., 0., 23.
y axis
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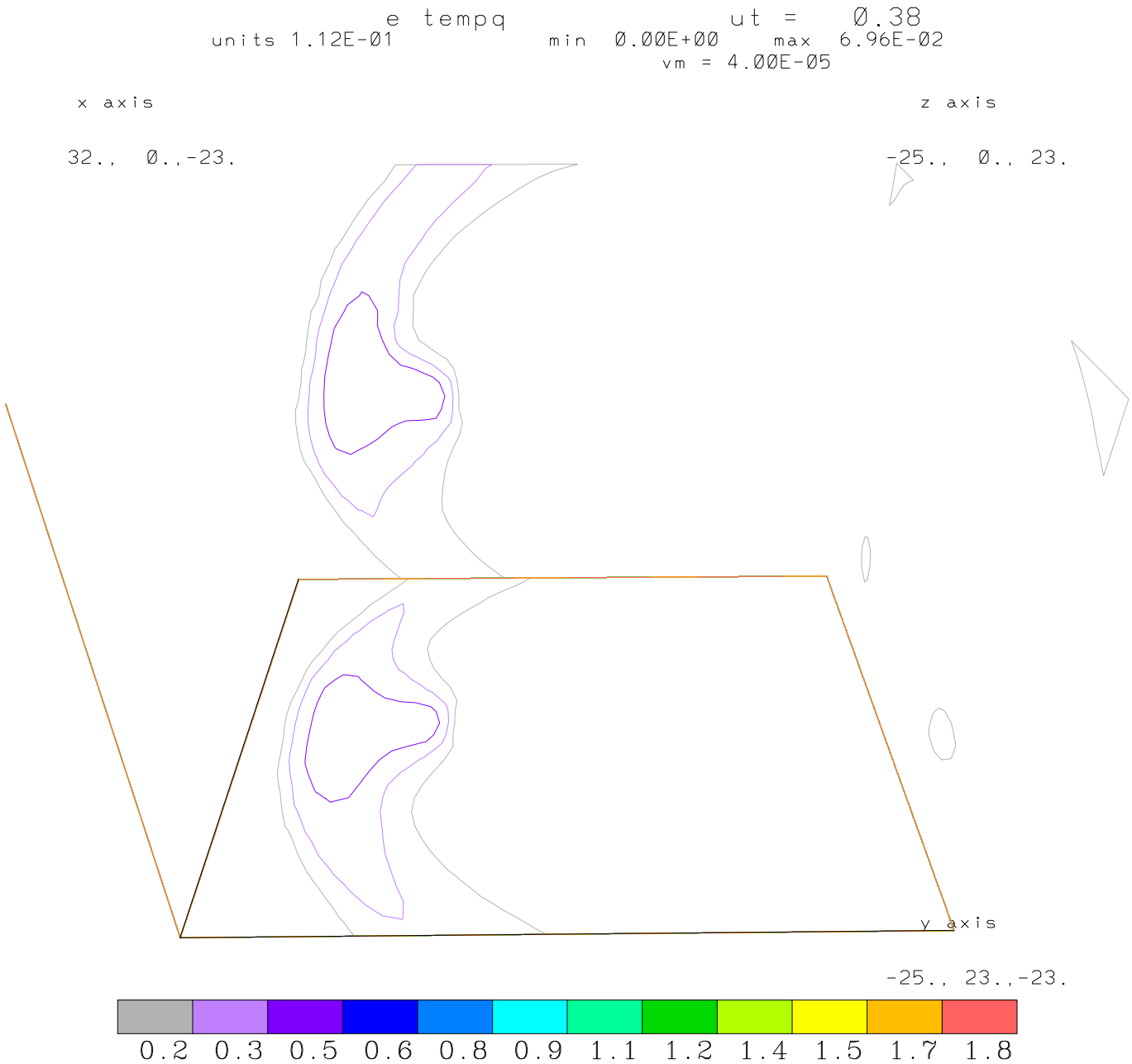
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8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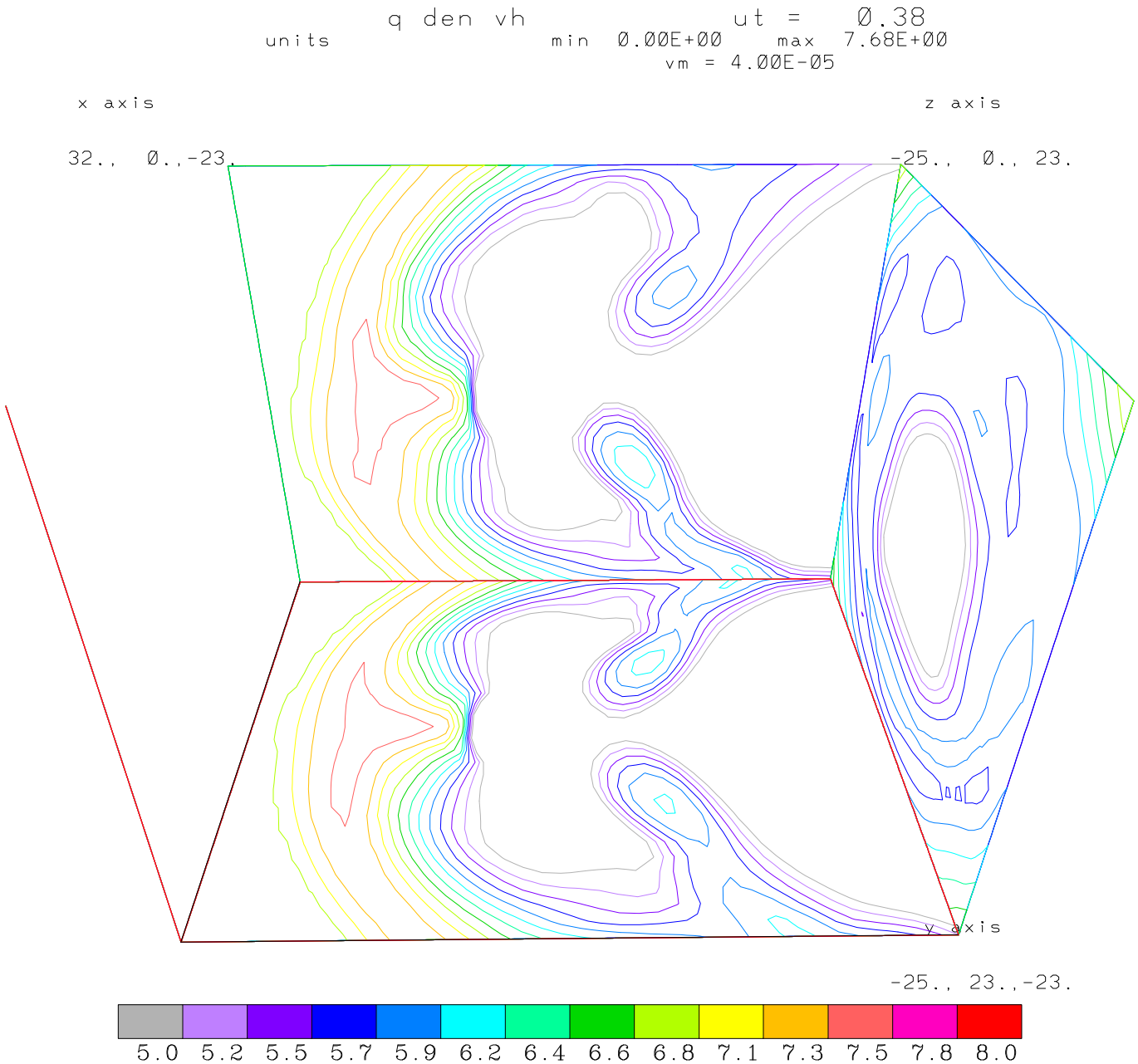
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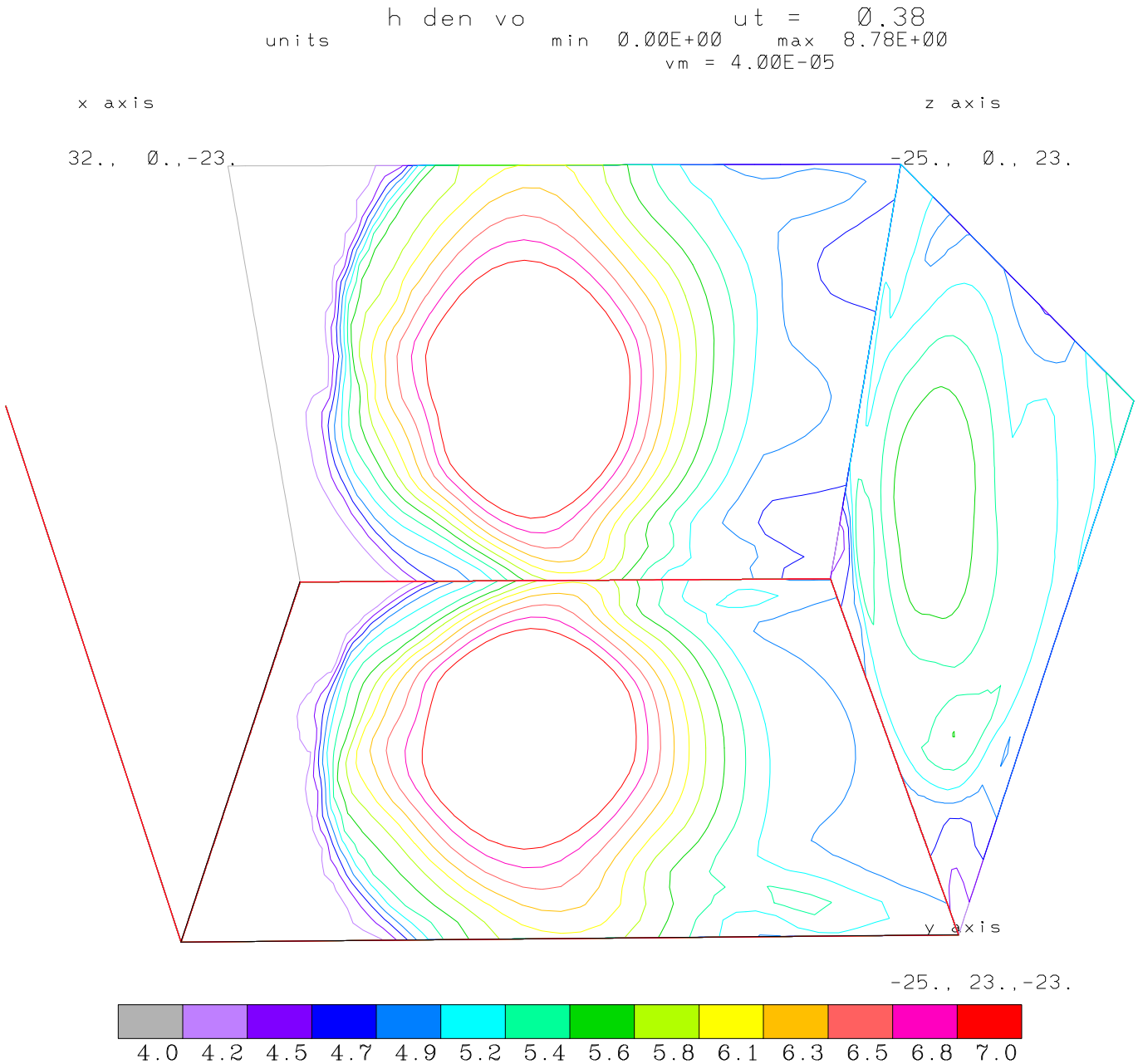
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z axis
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-25., 0., 23.
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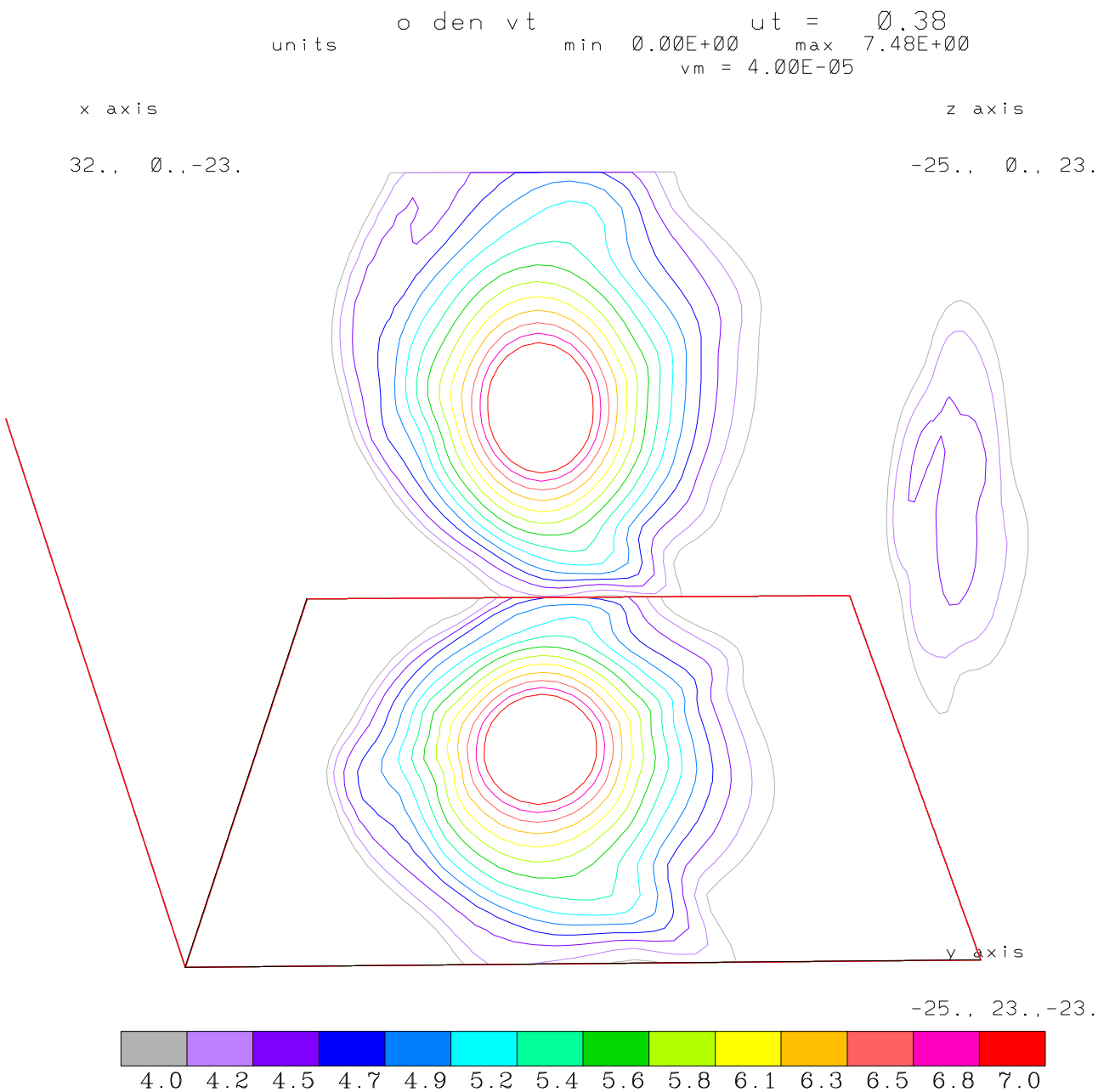
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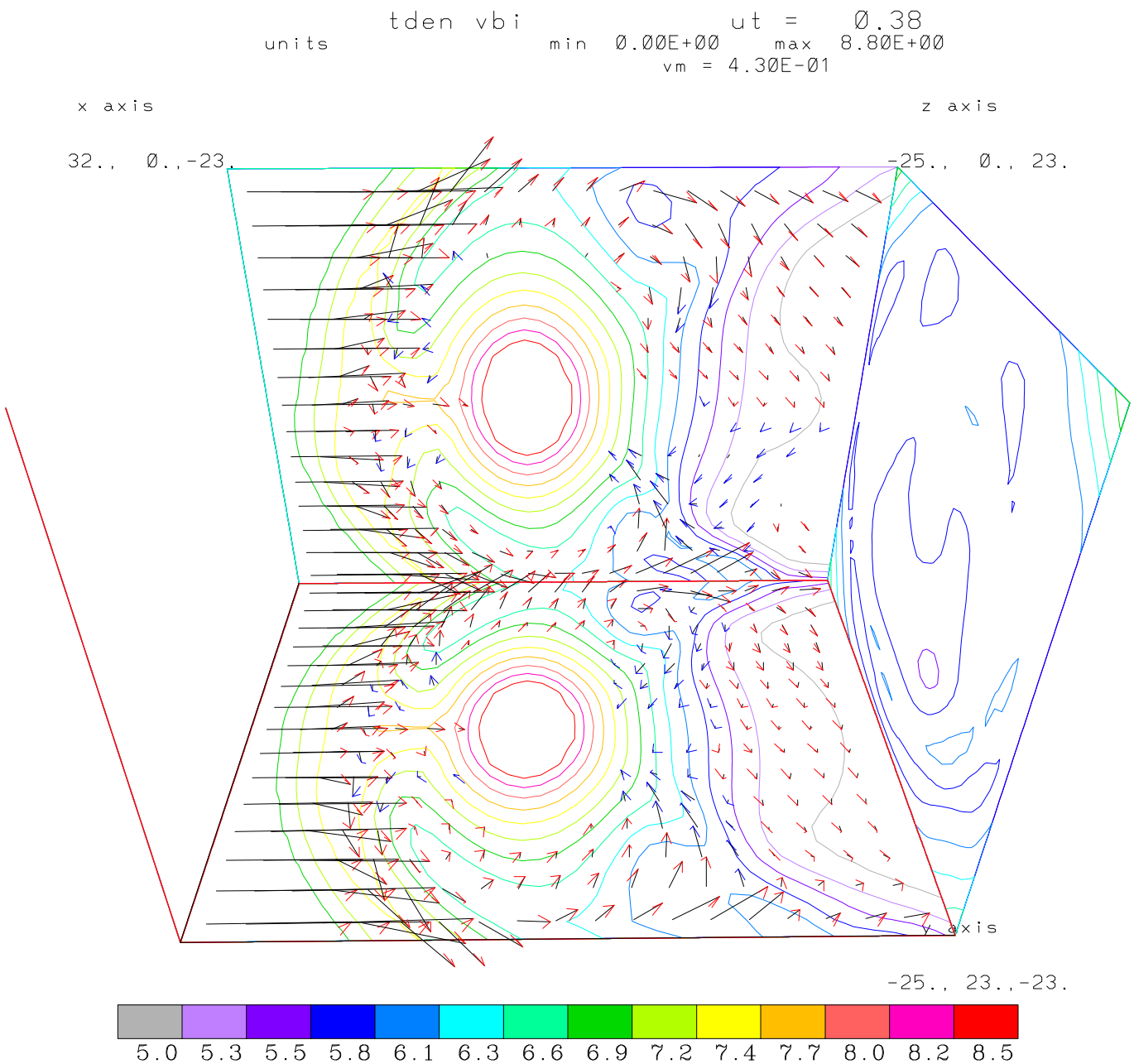
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vm = 4.30E-01
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z axis
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-25., 0., 23.
y axis
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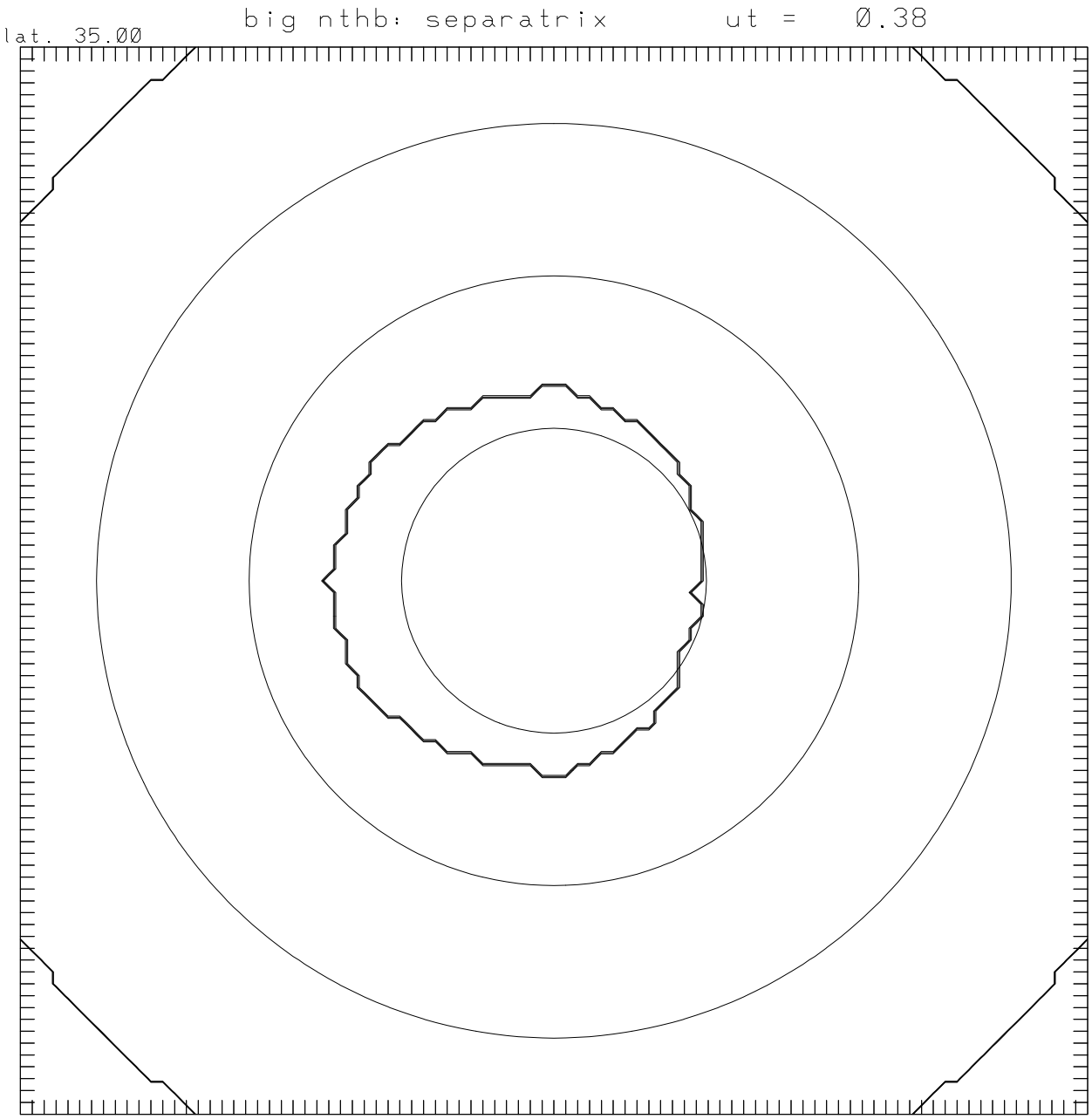
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5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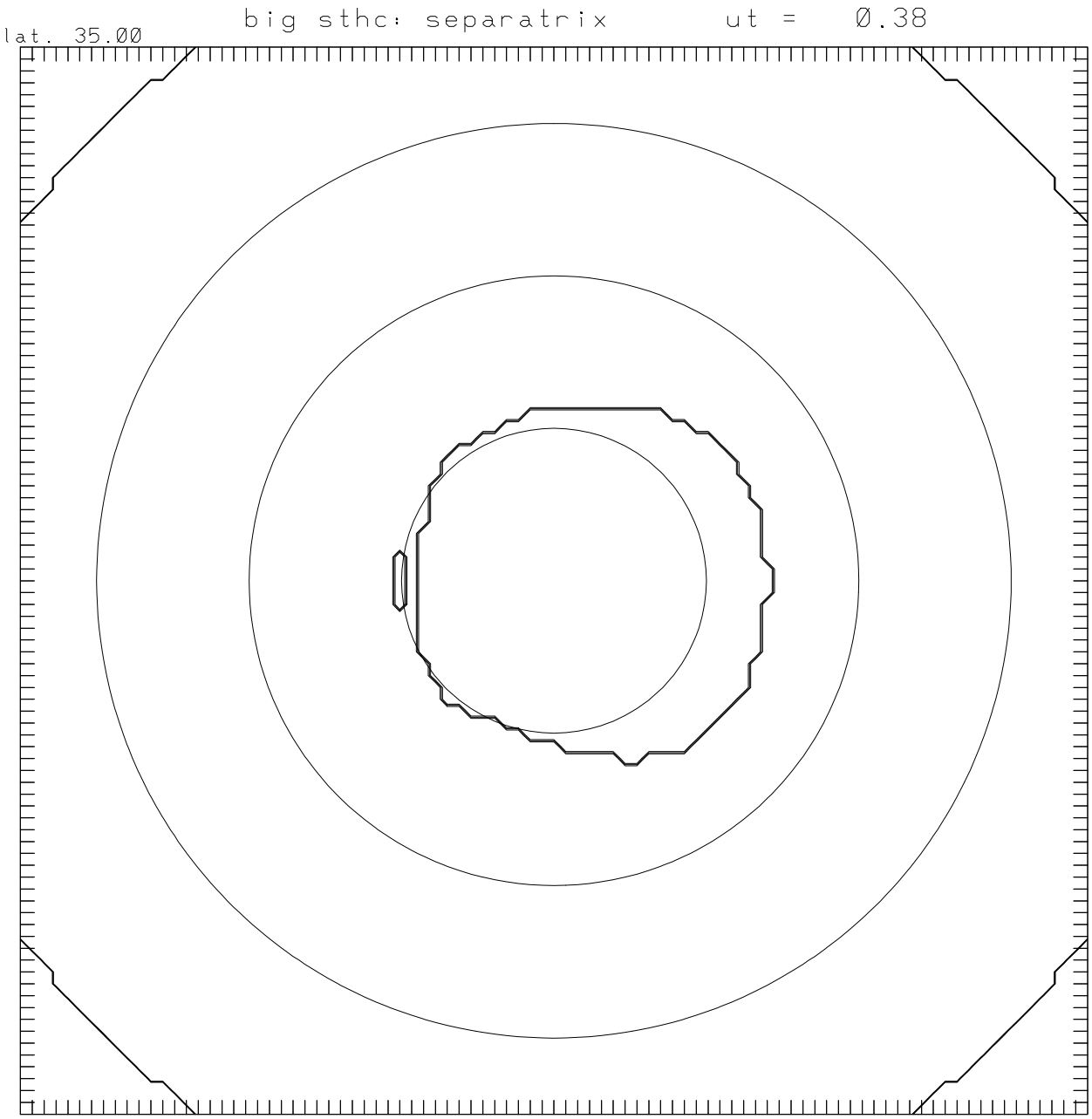
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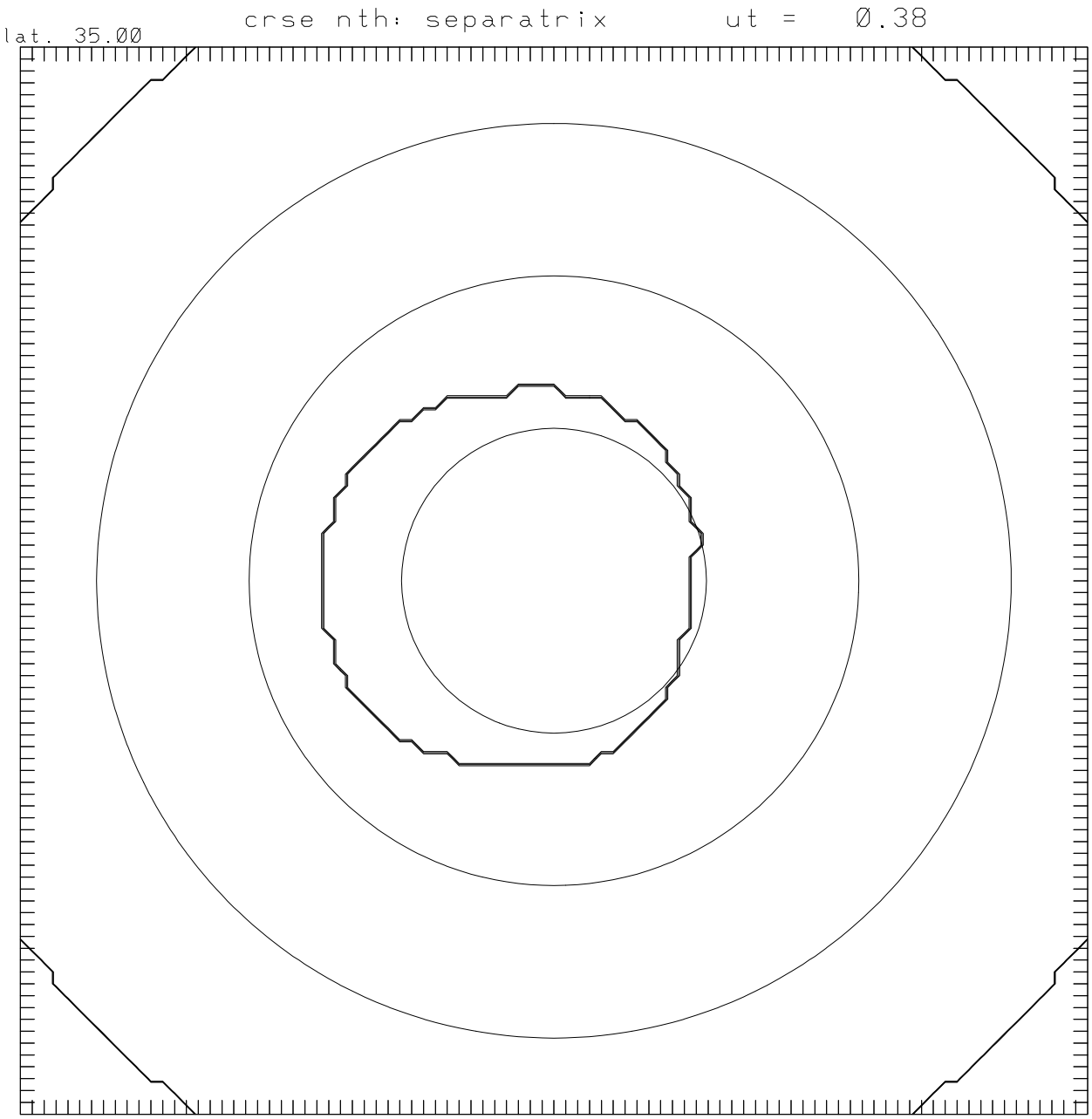
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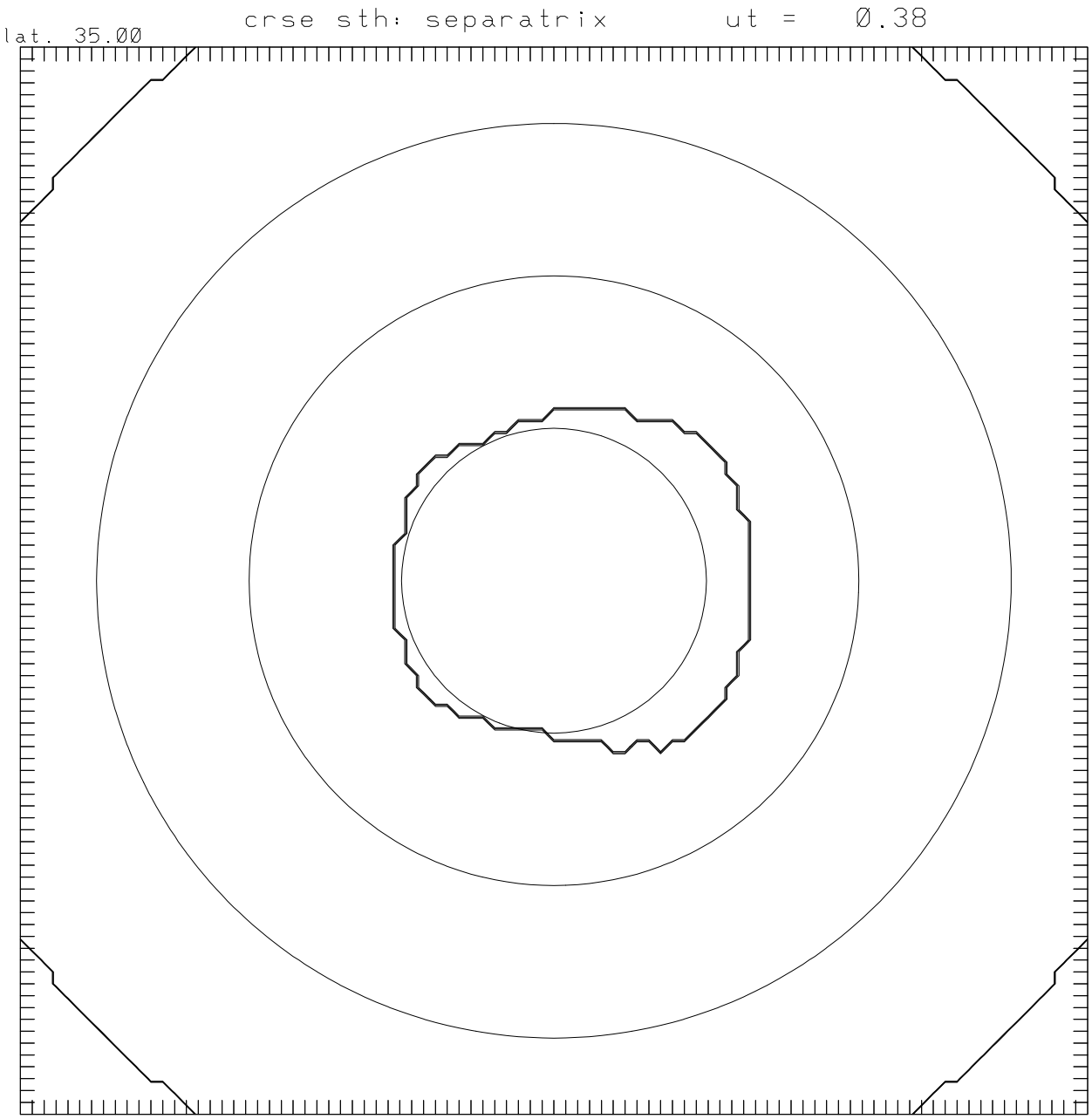
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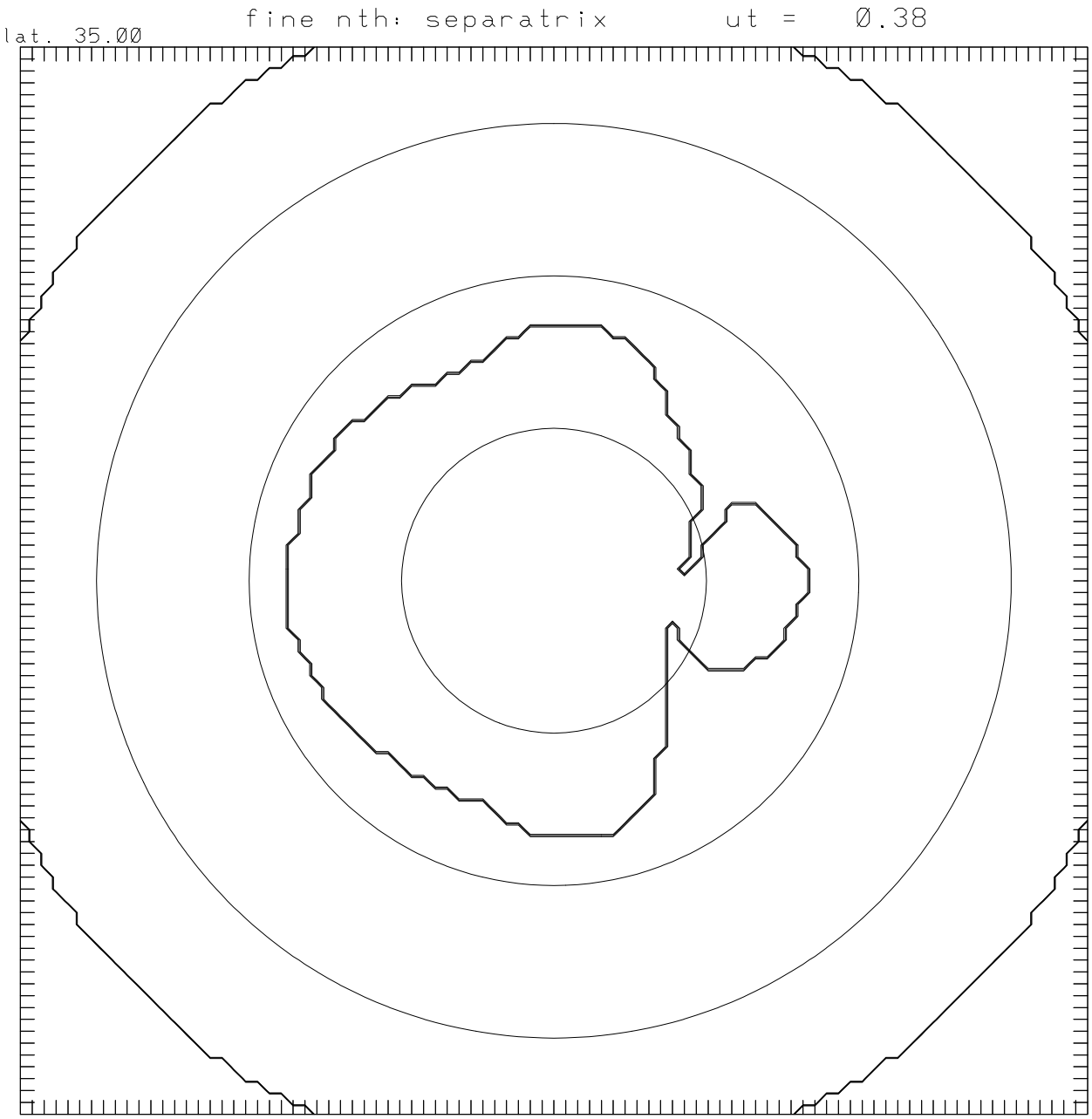
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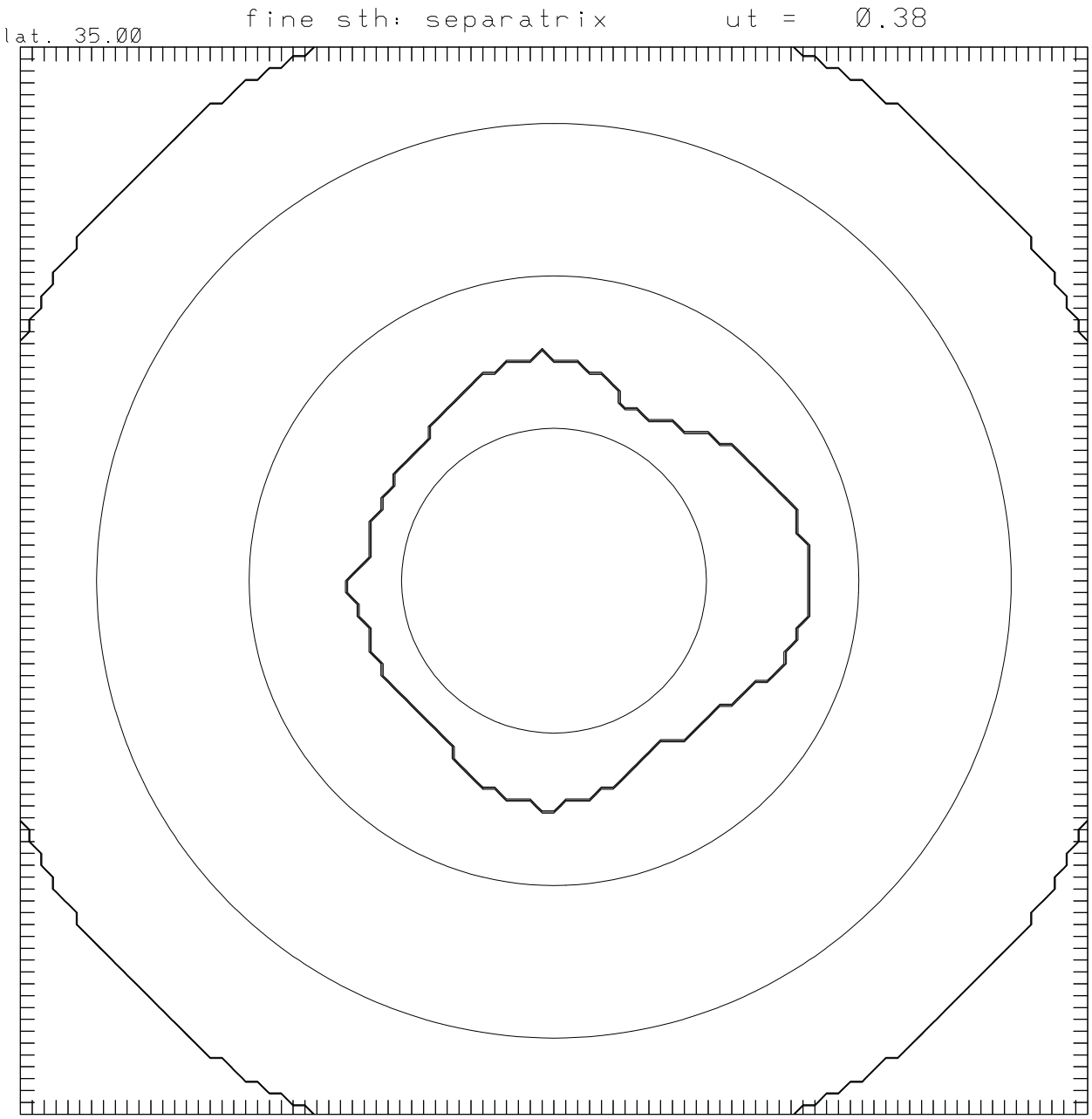
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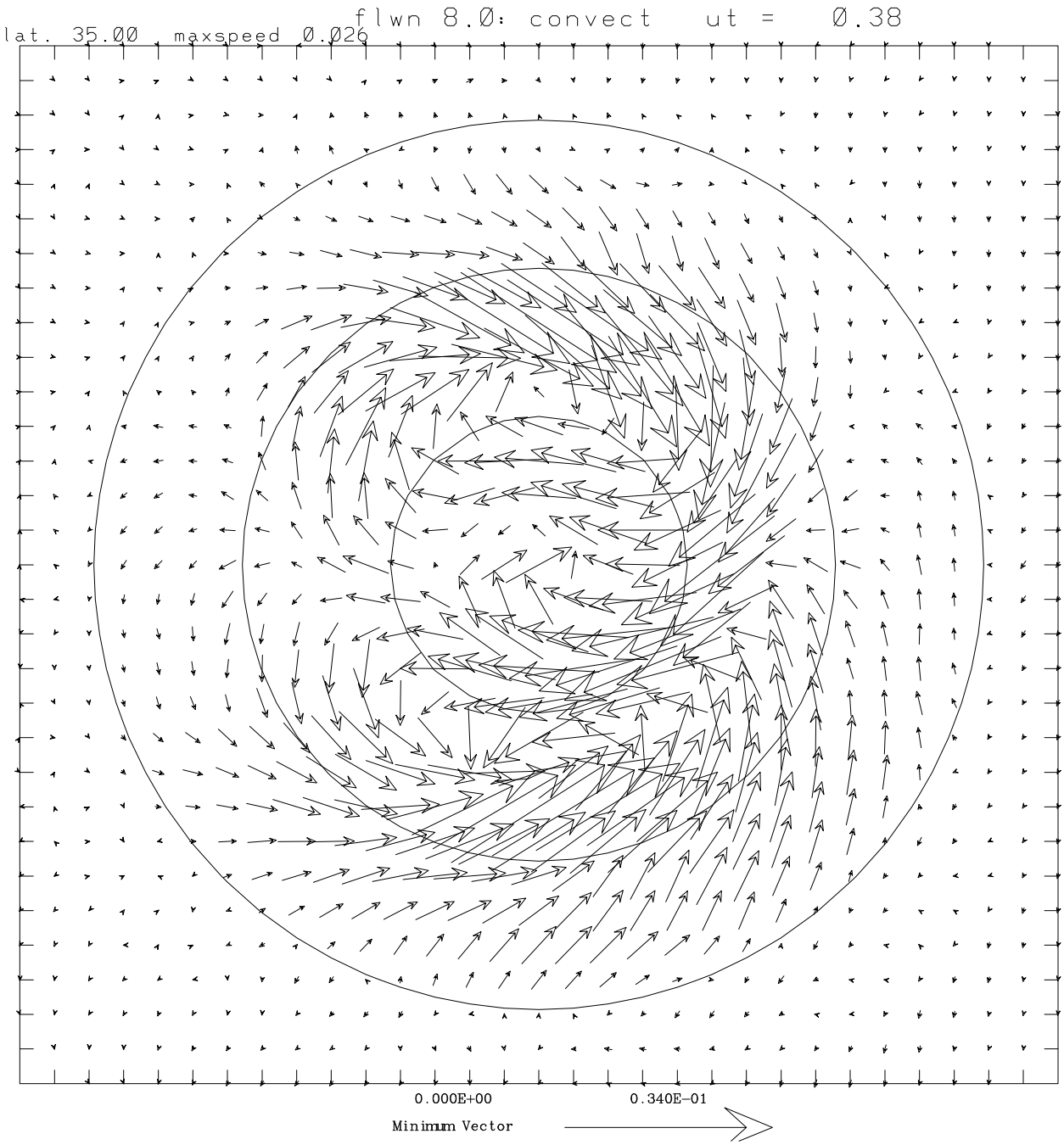
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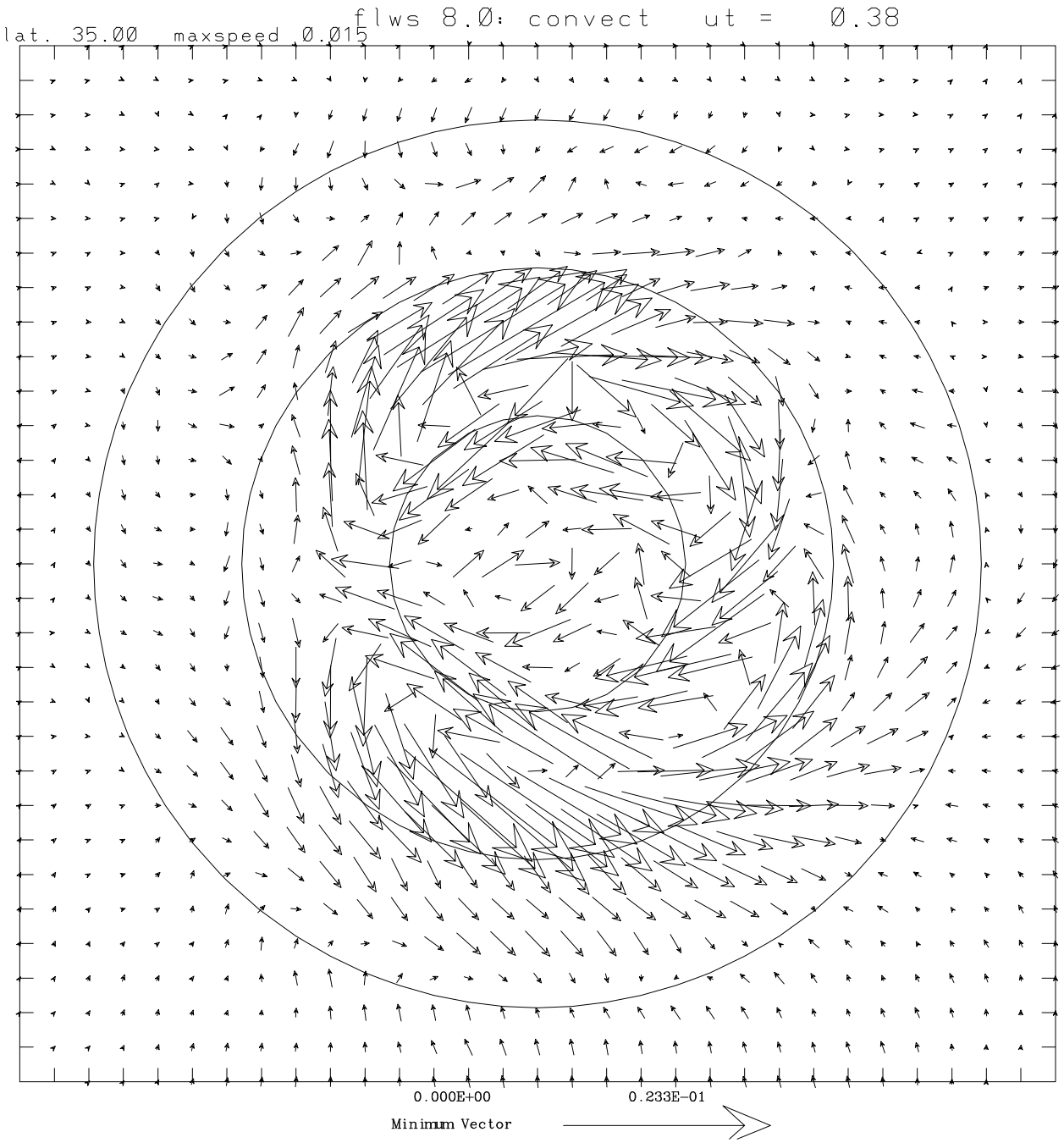
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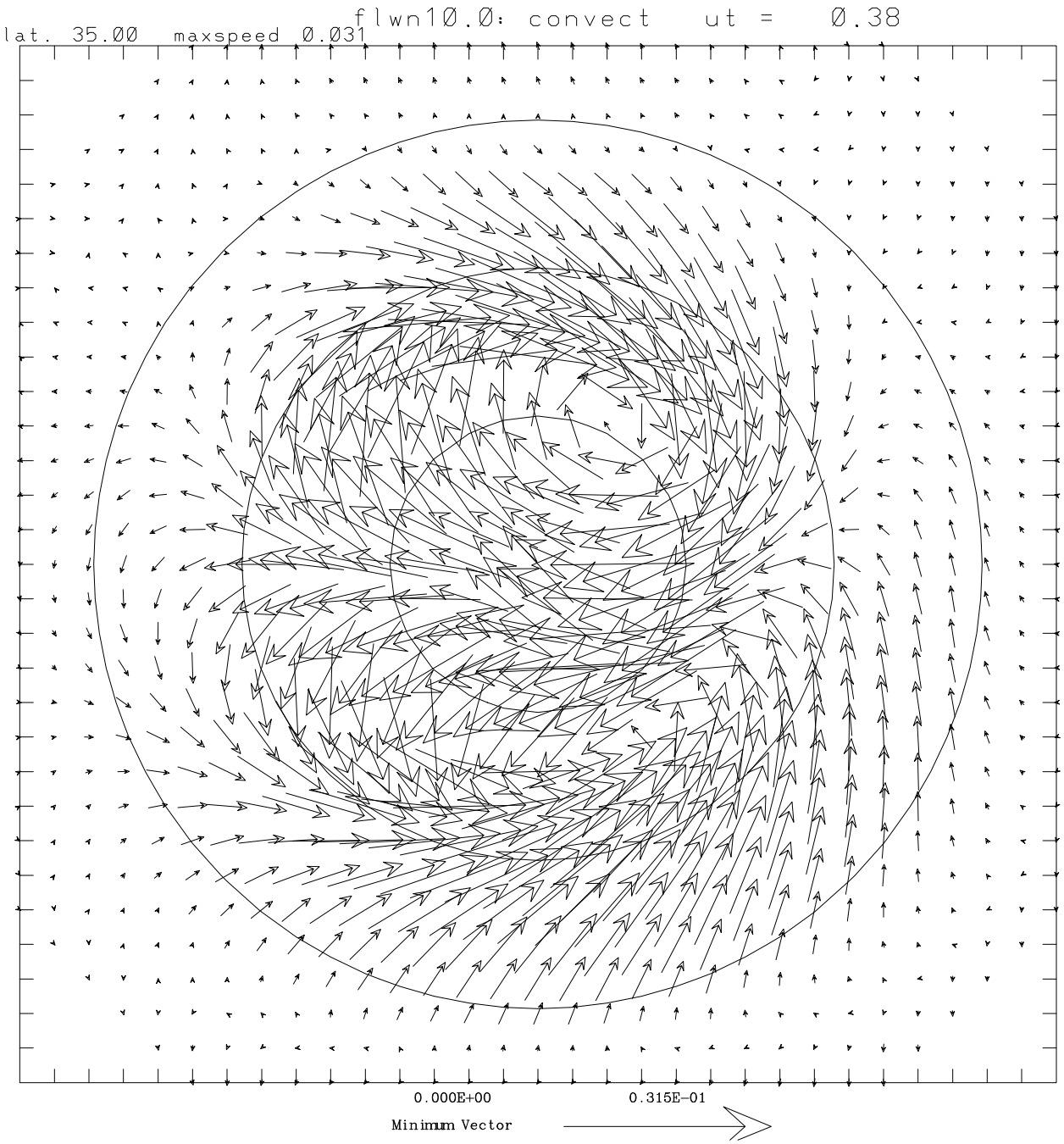
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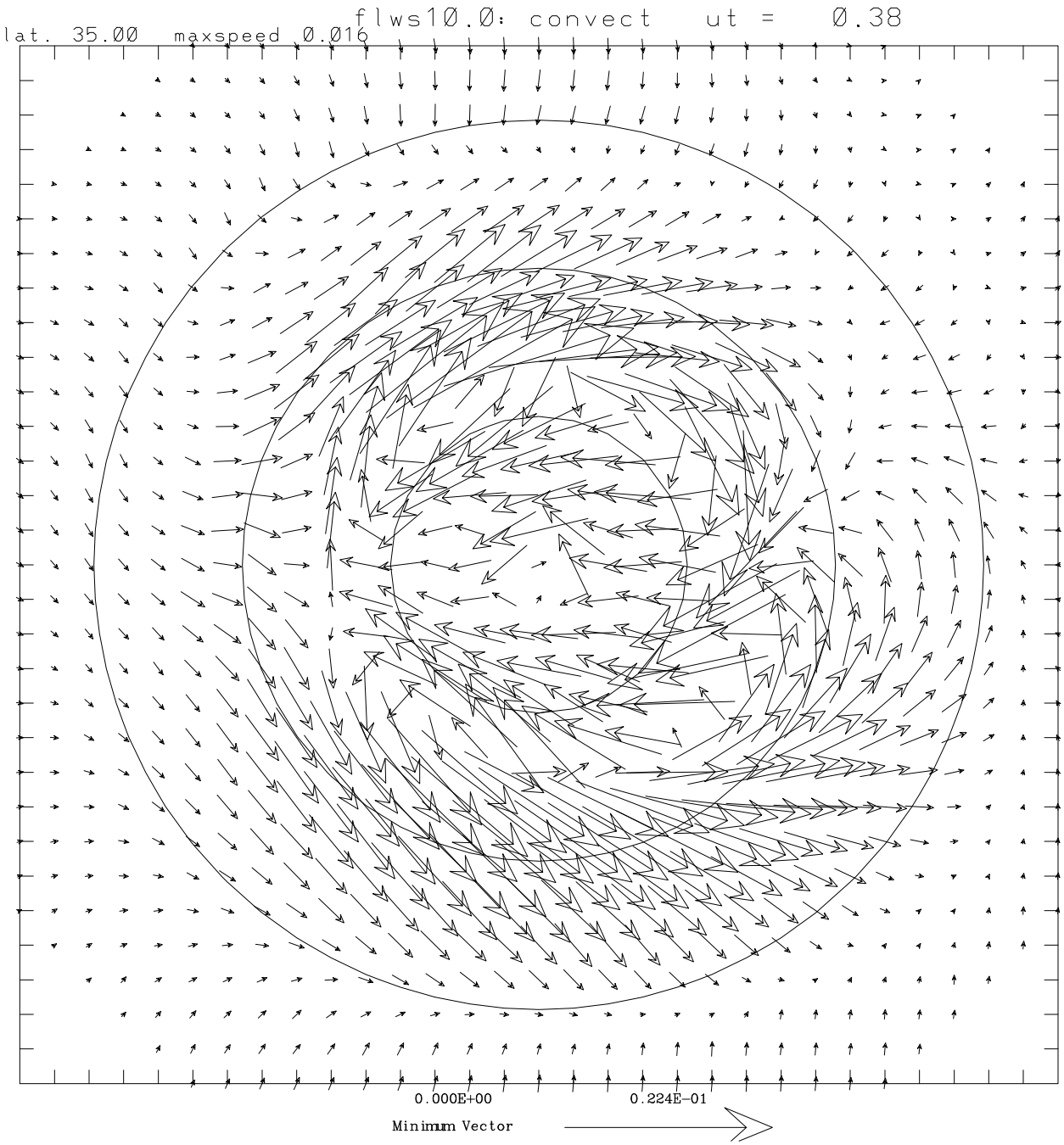
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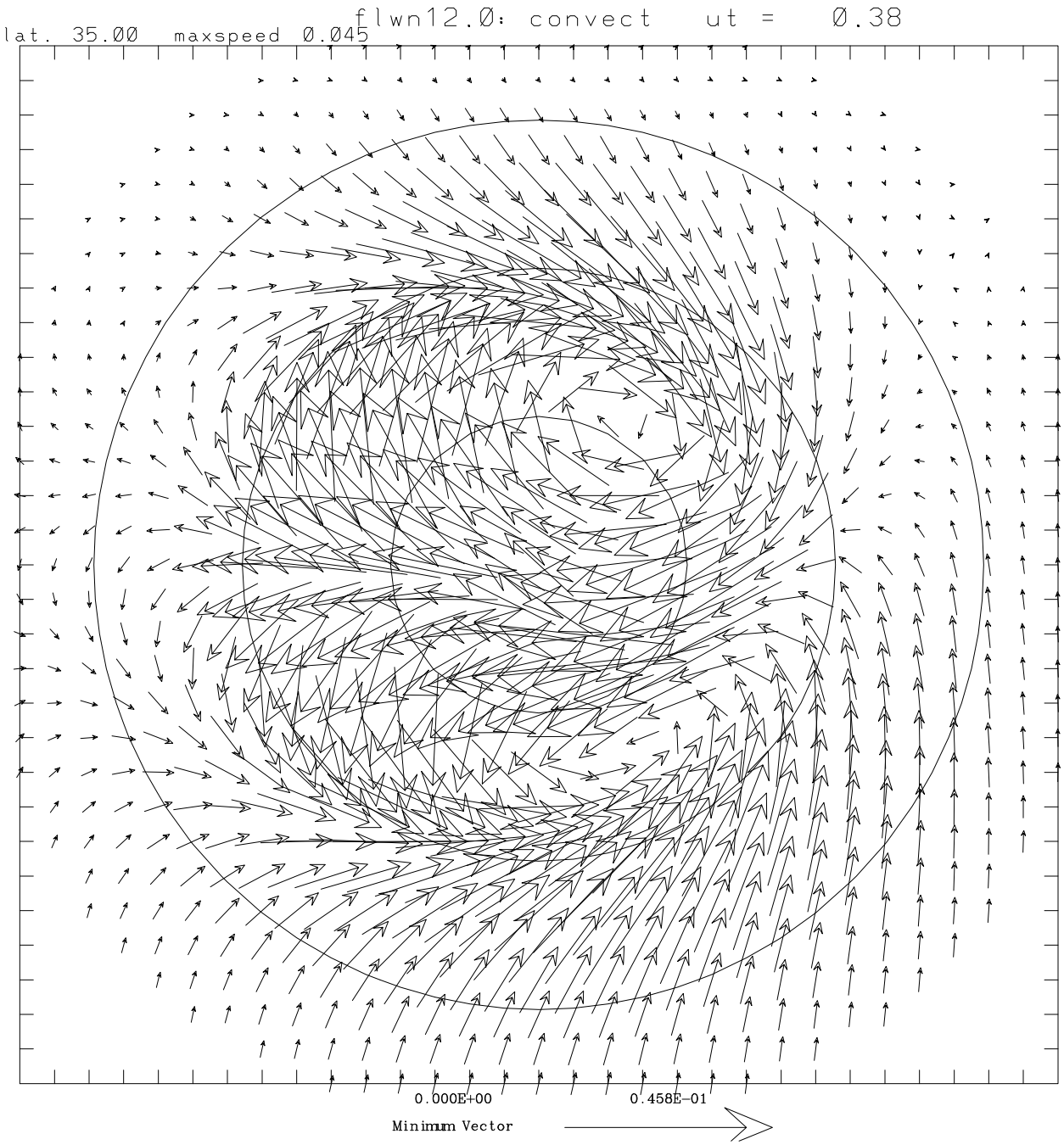
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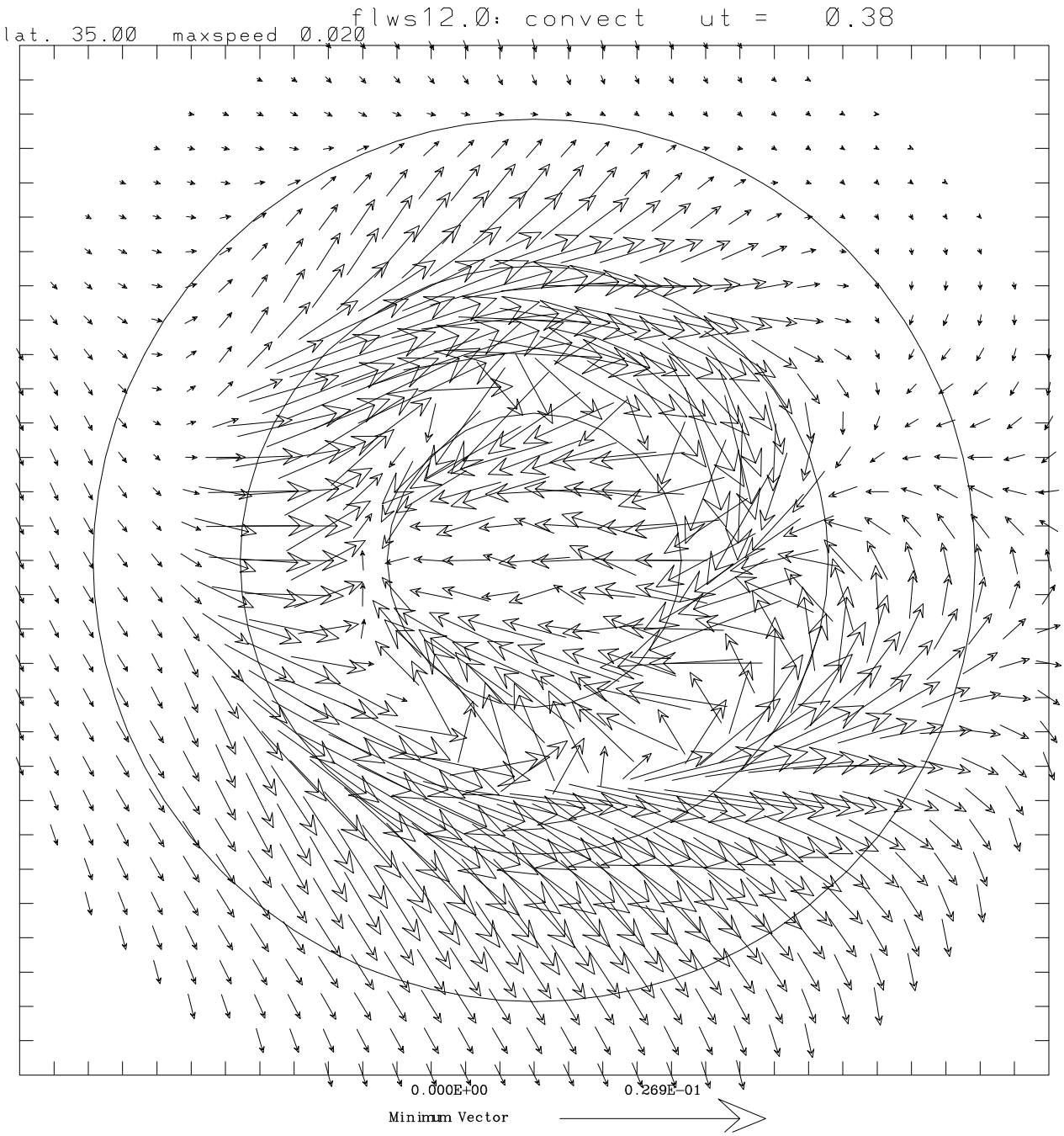
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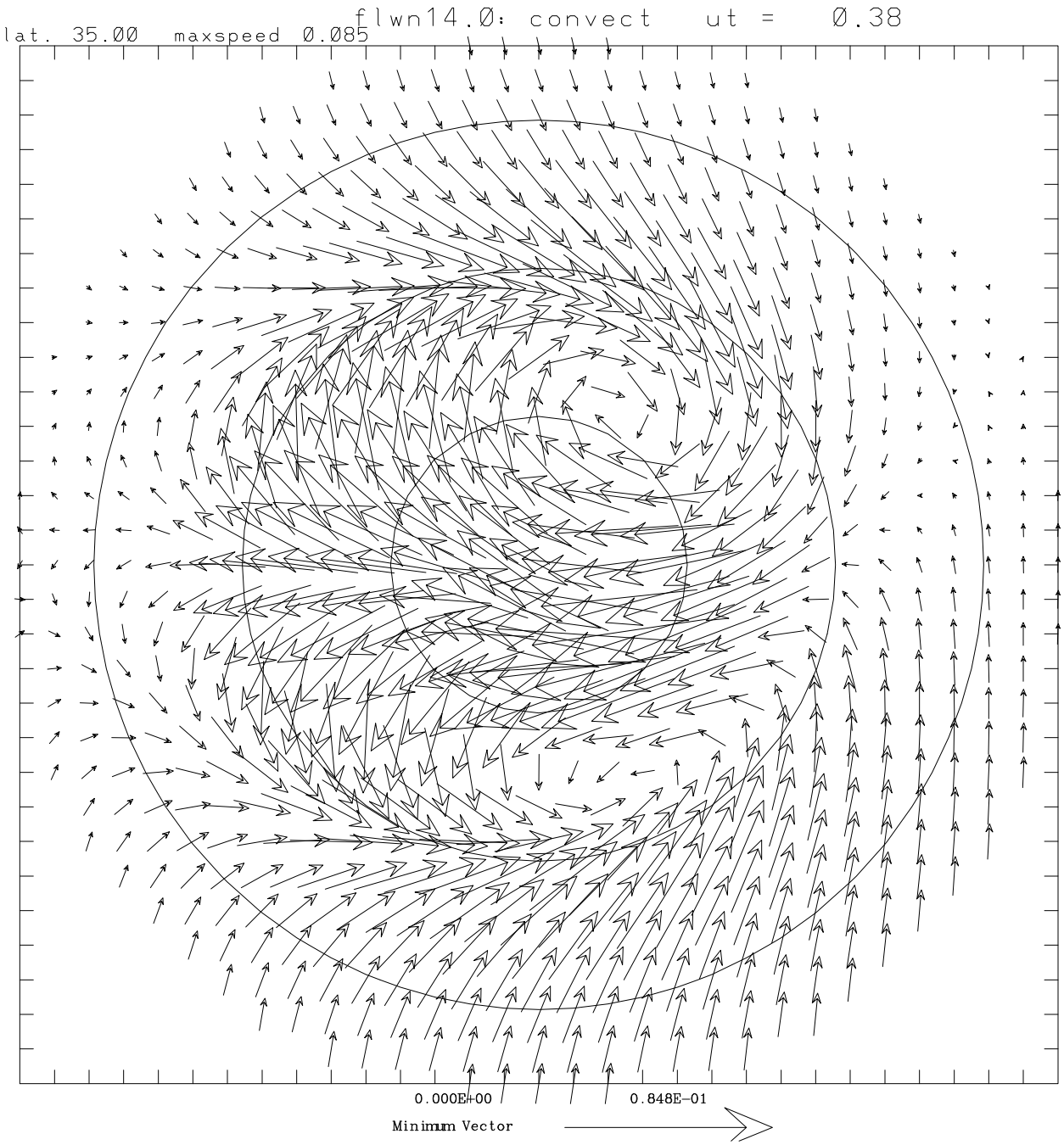
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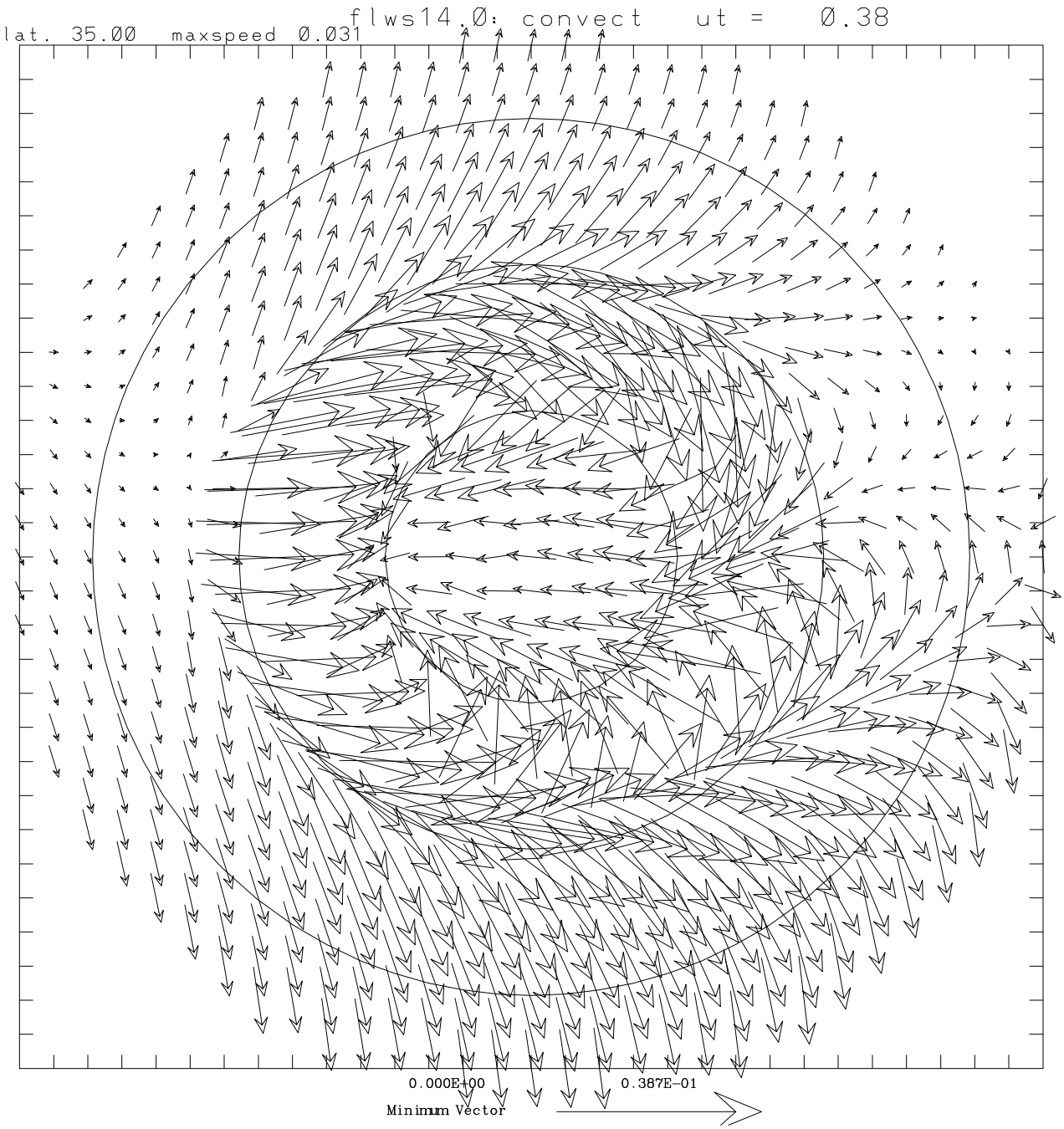
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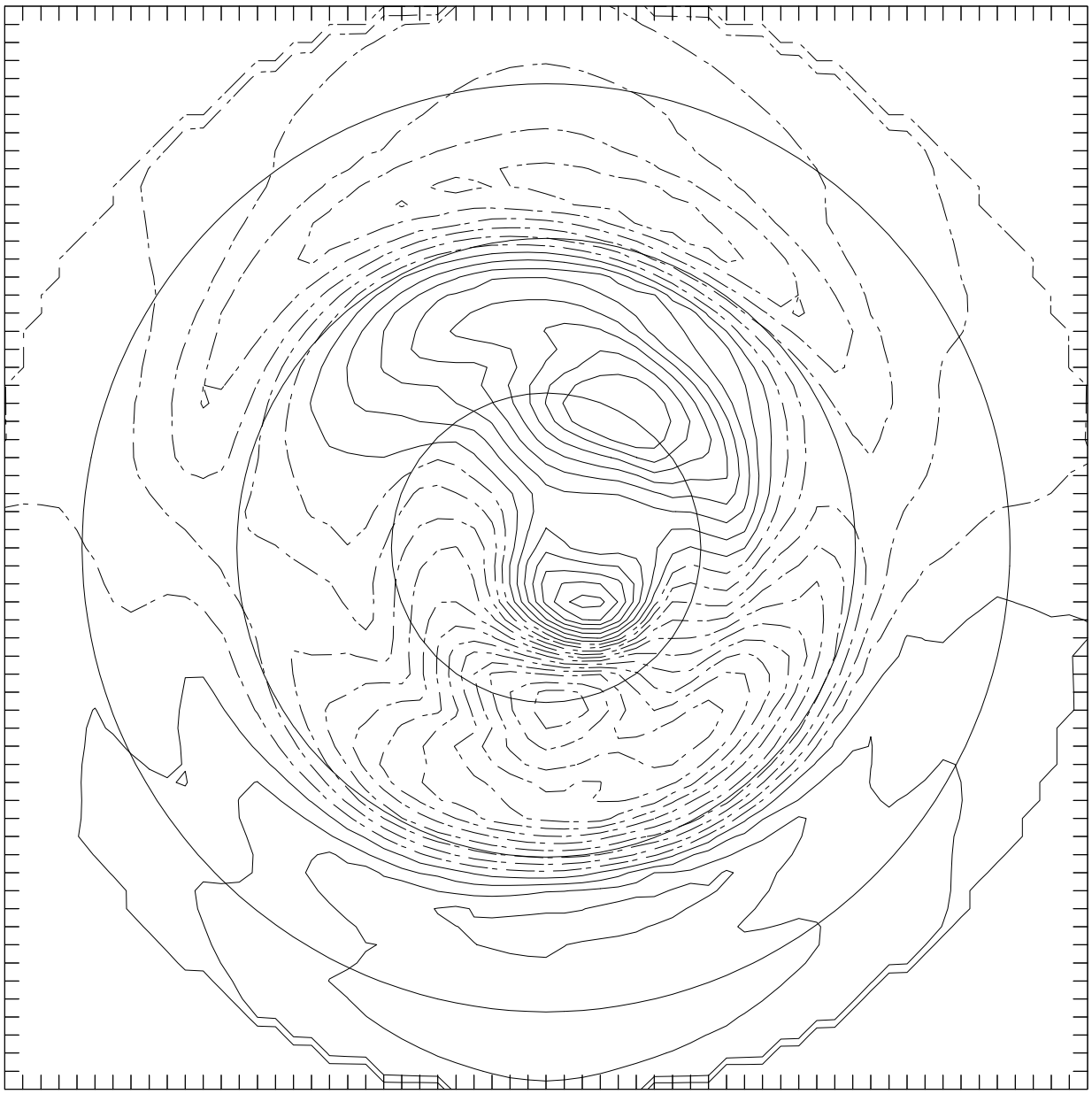
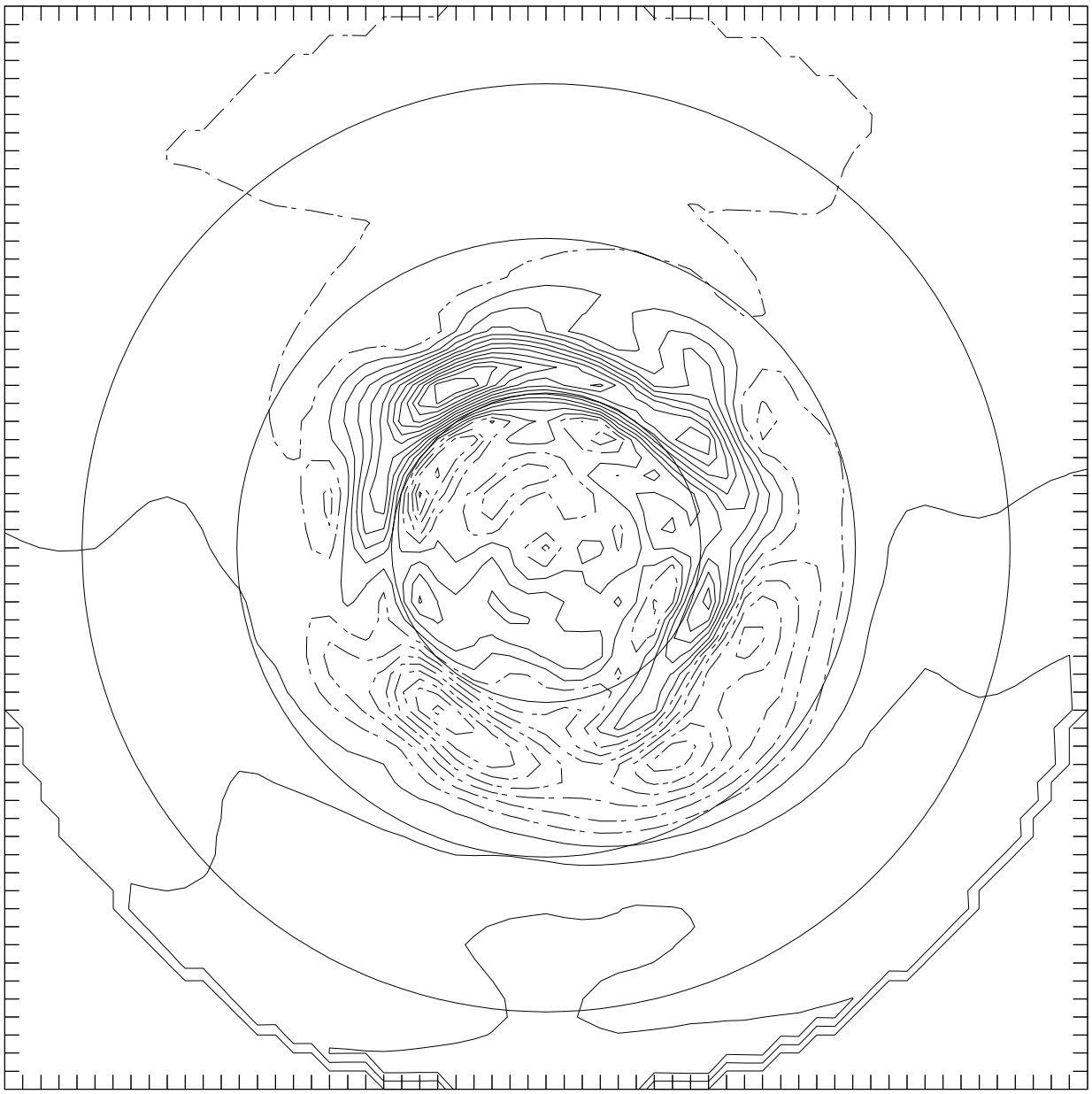


min -0.04 fmax 0.06 sth cap pot ut = 0.38



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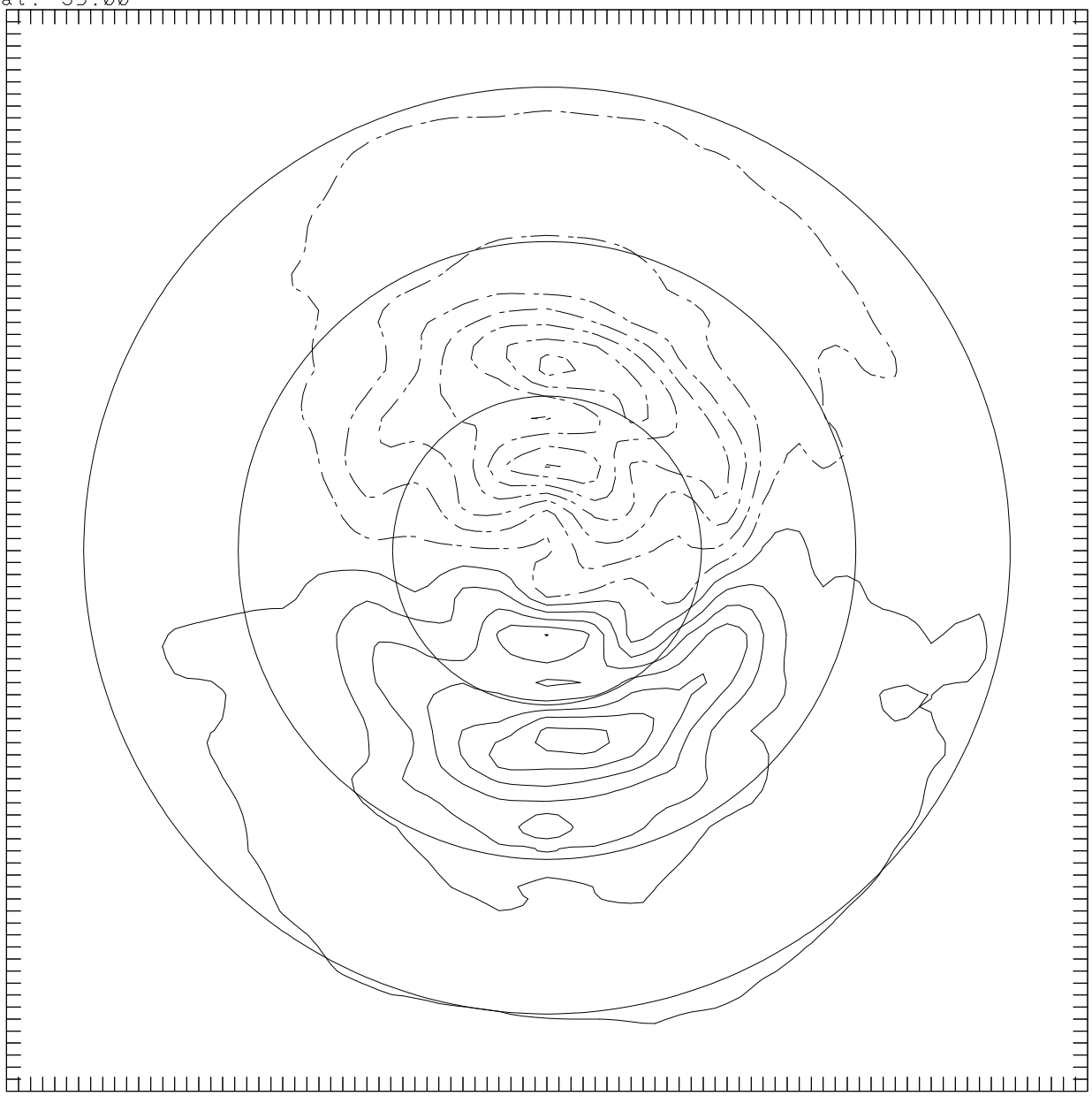

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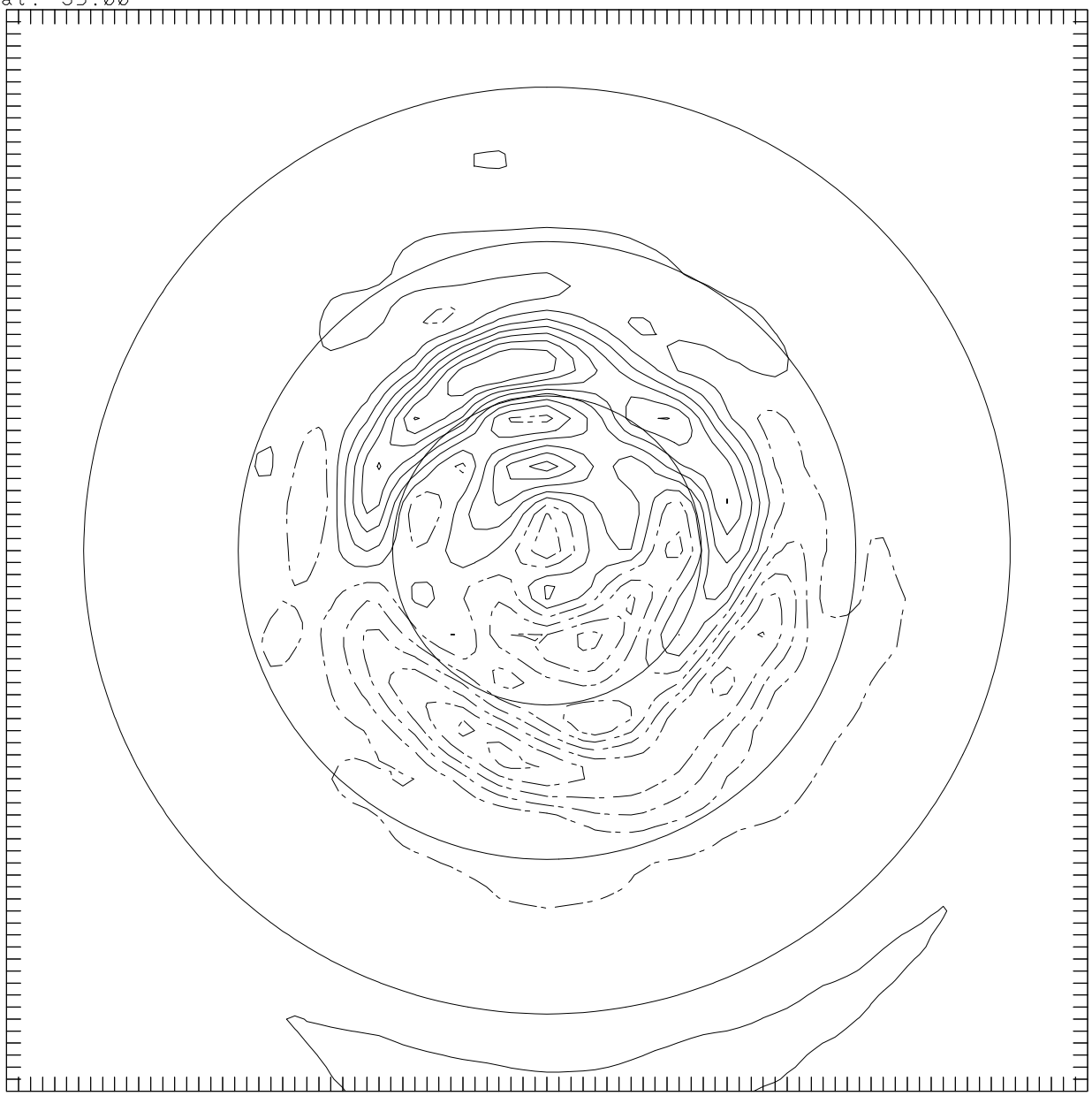

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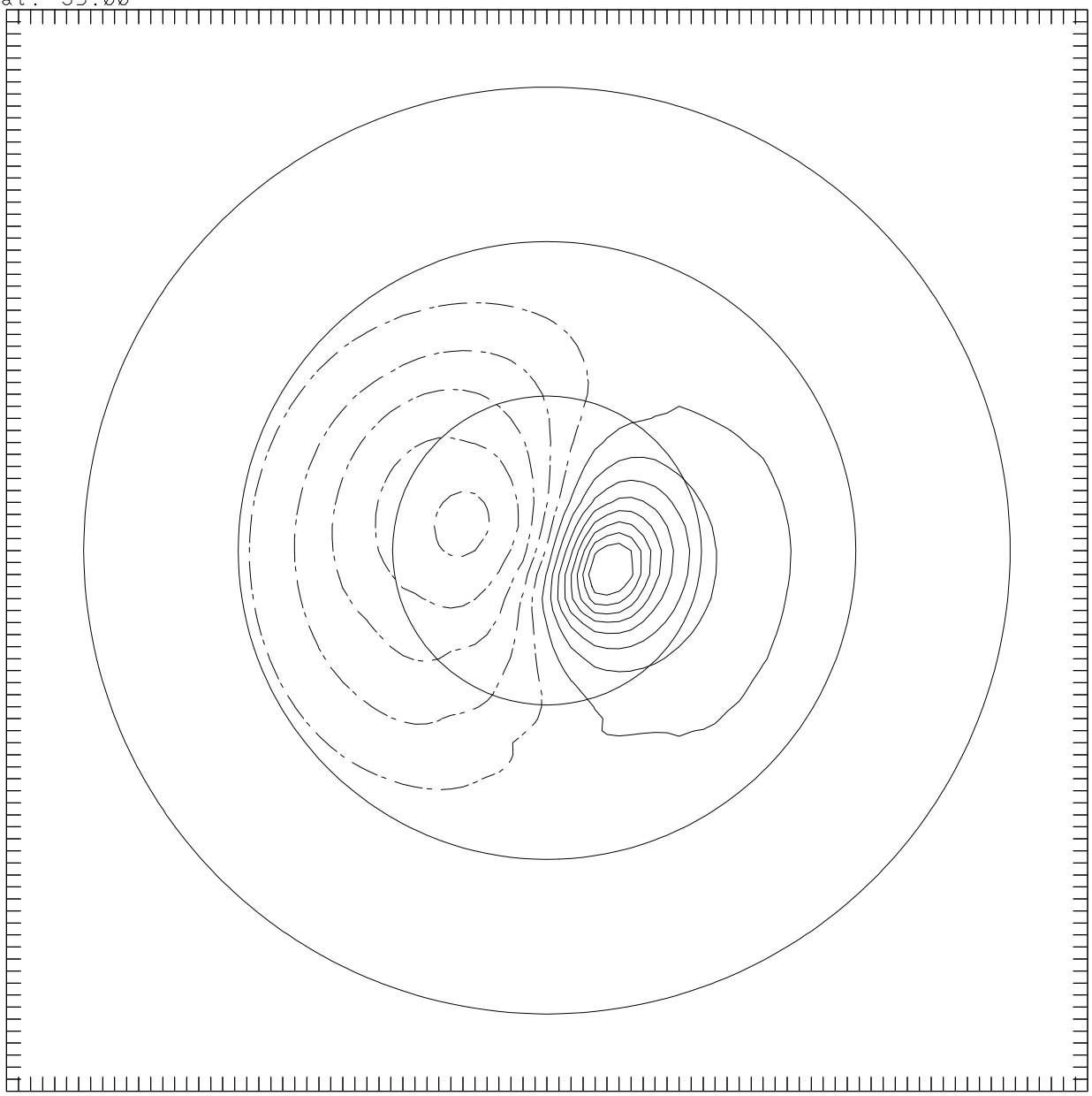
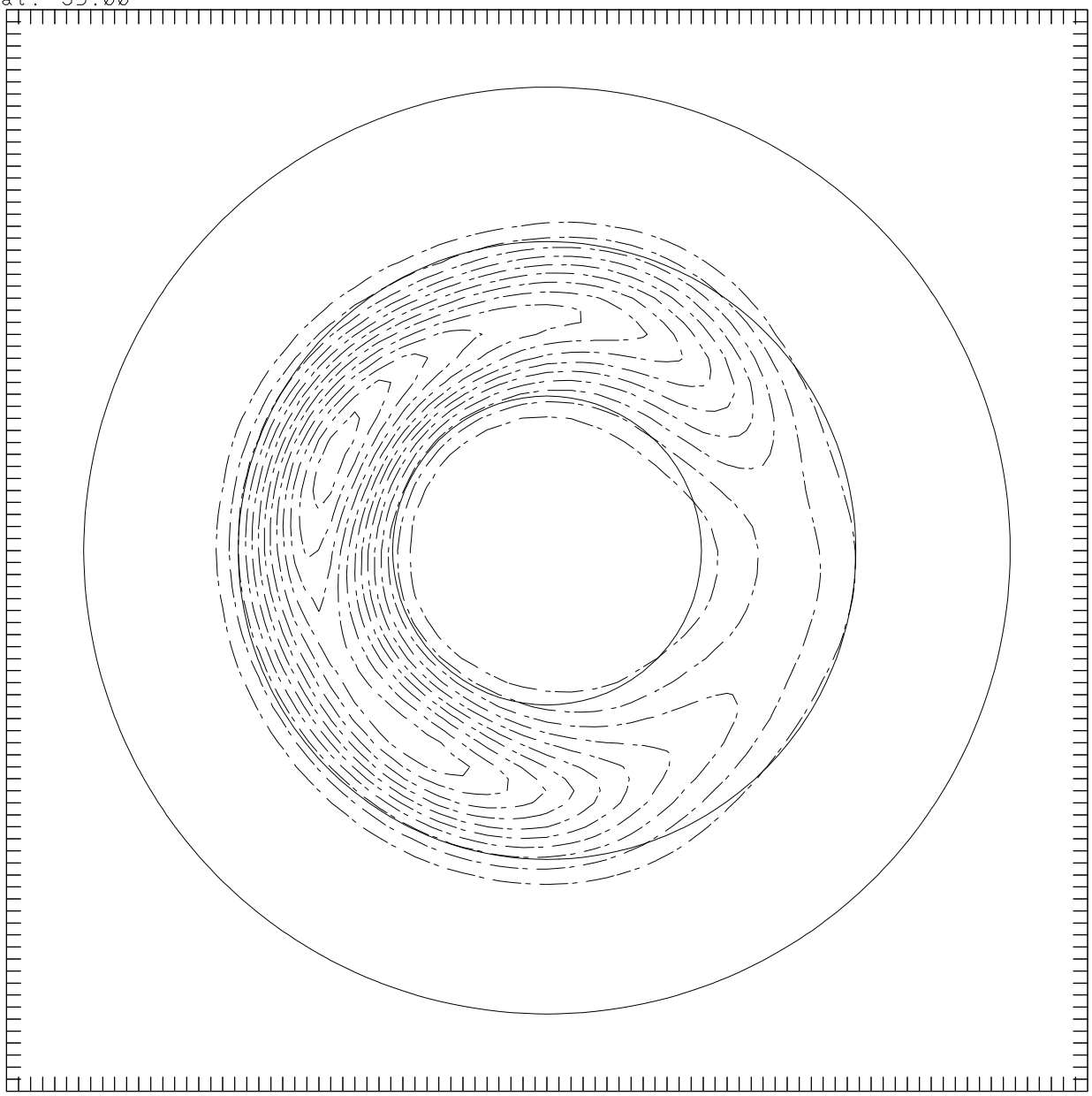


min-0.2212 fmax 0.0000
lat. 35.00

qfluxsth: aurora ut = 0.38



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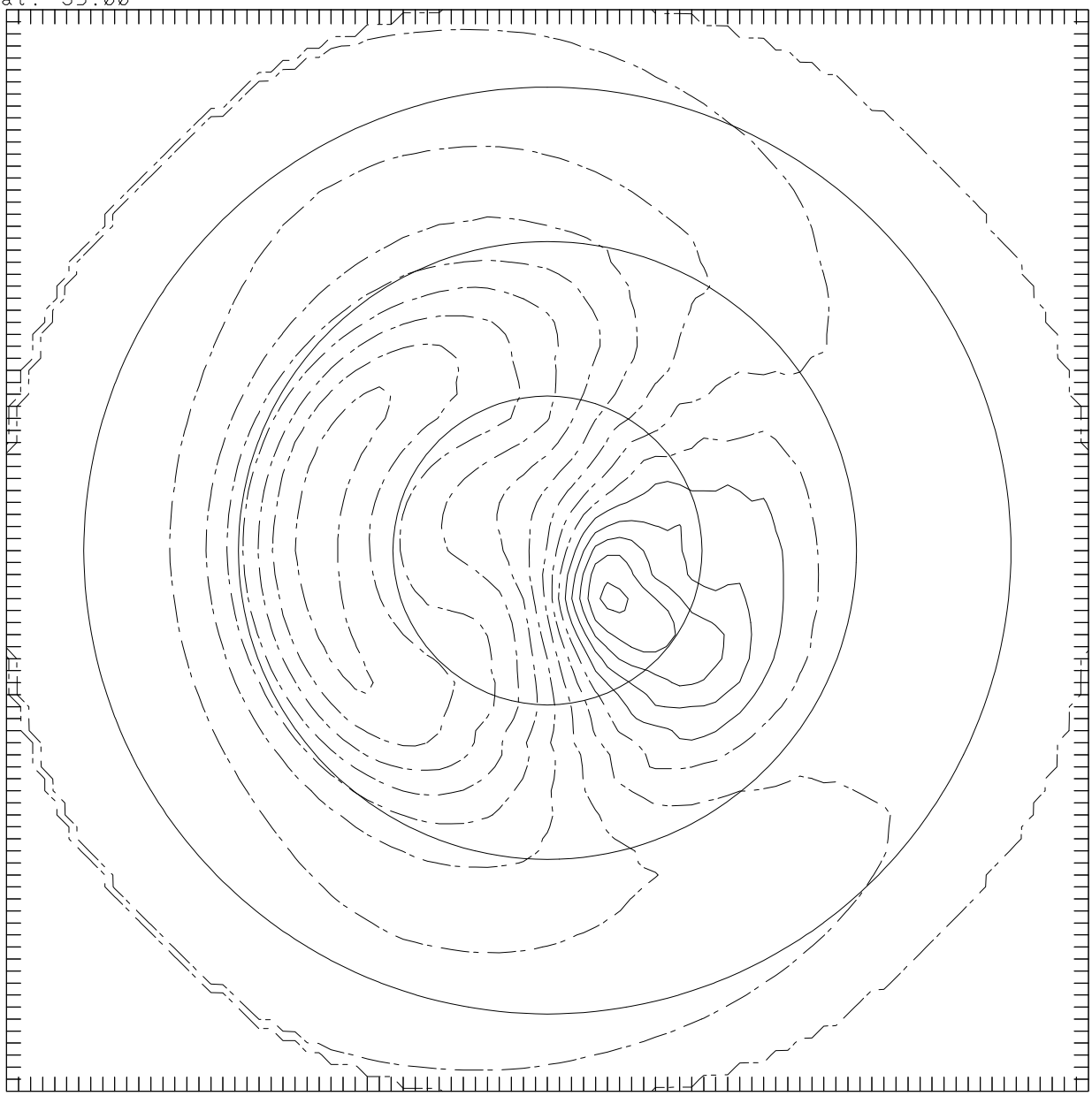

min-0.0072 fmax 0.0032
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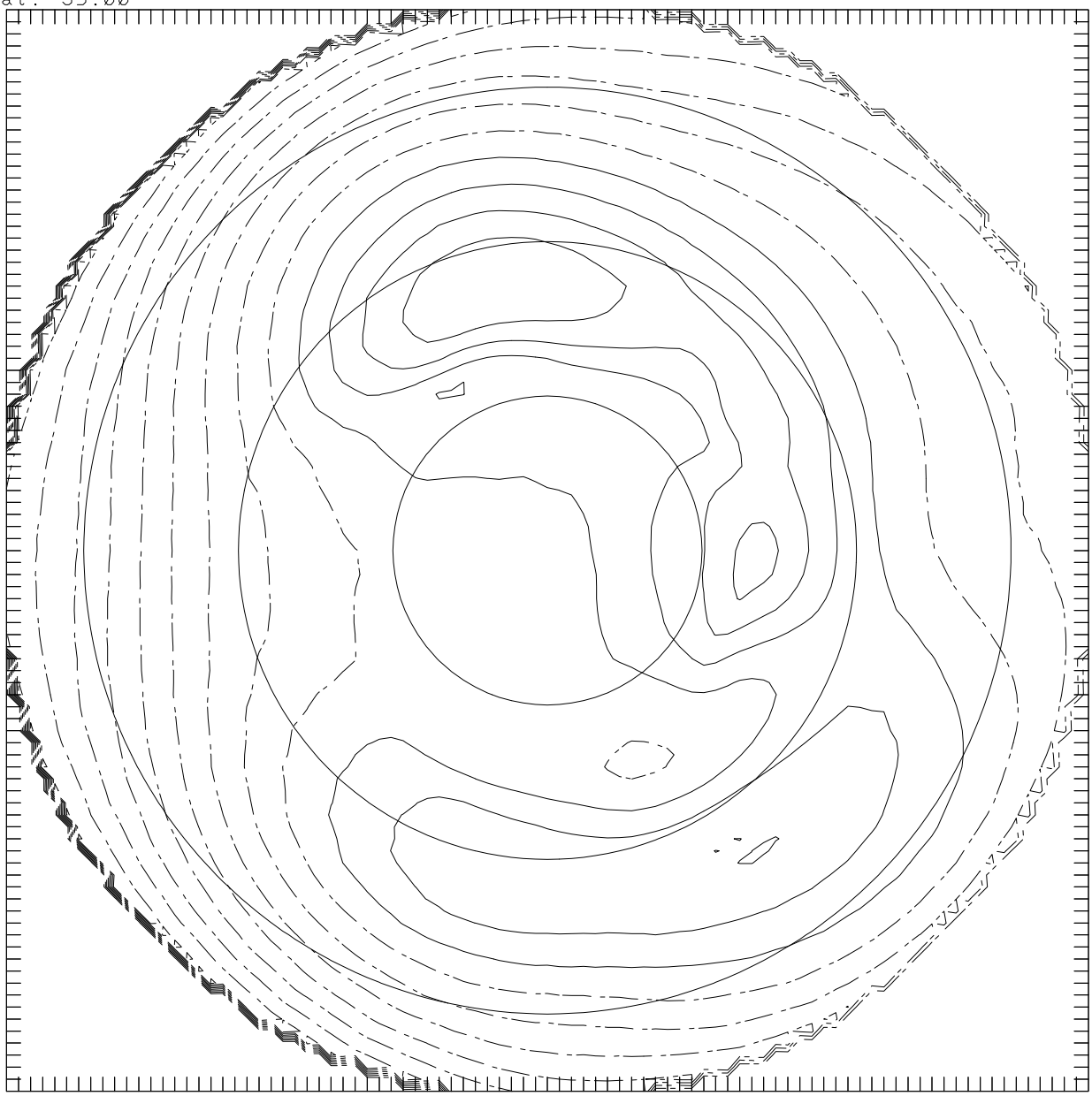
hfluxsth: aurora ut = 0.38



min-0.0216 fmax 0.0000
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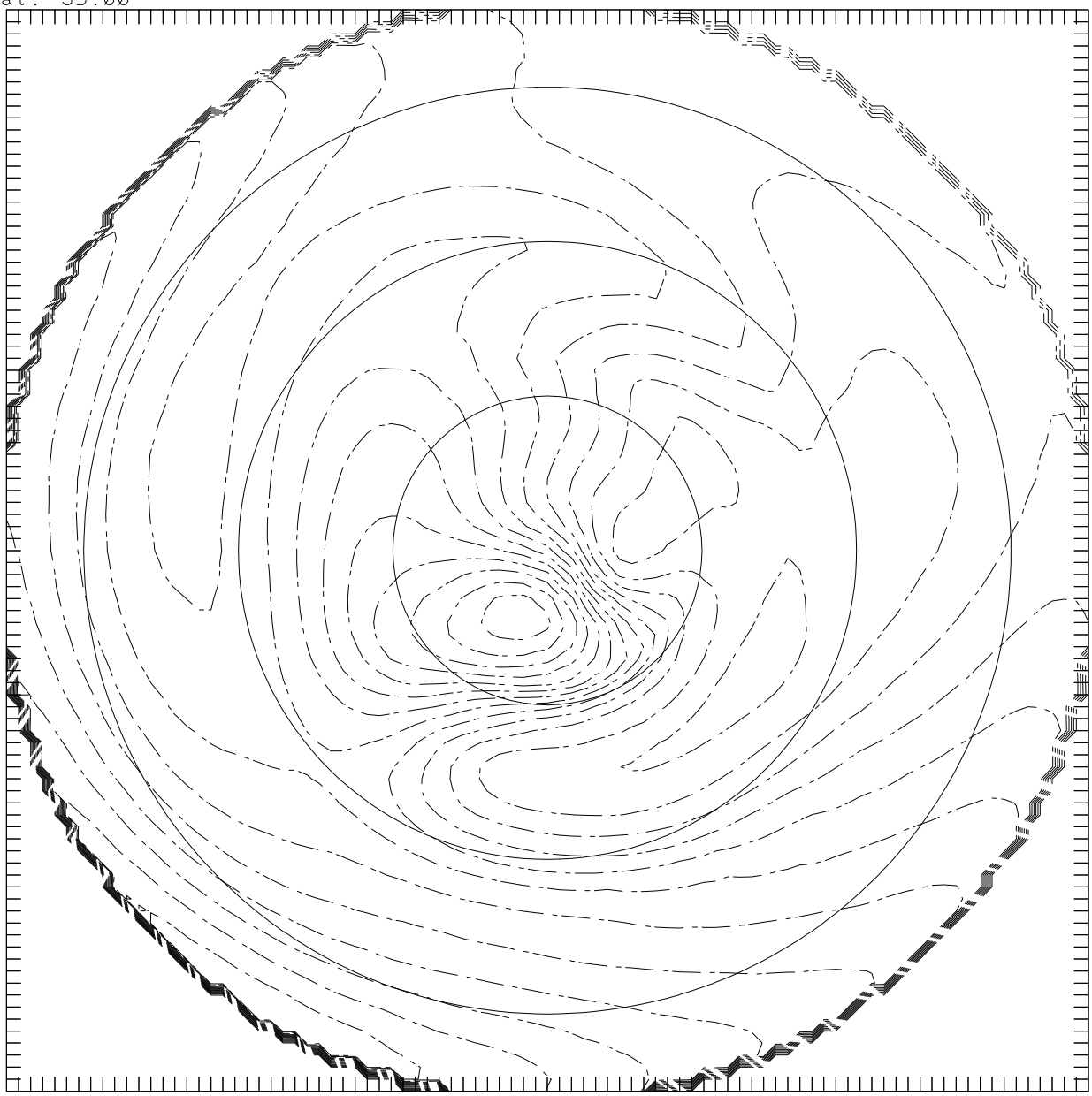

min-0.0202 fmax 0.0030
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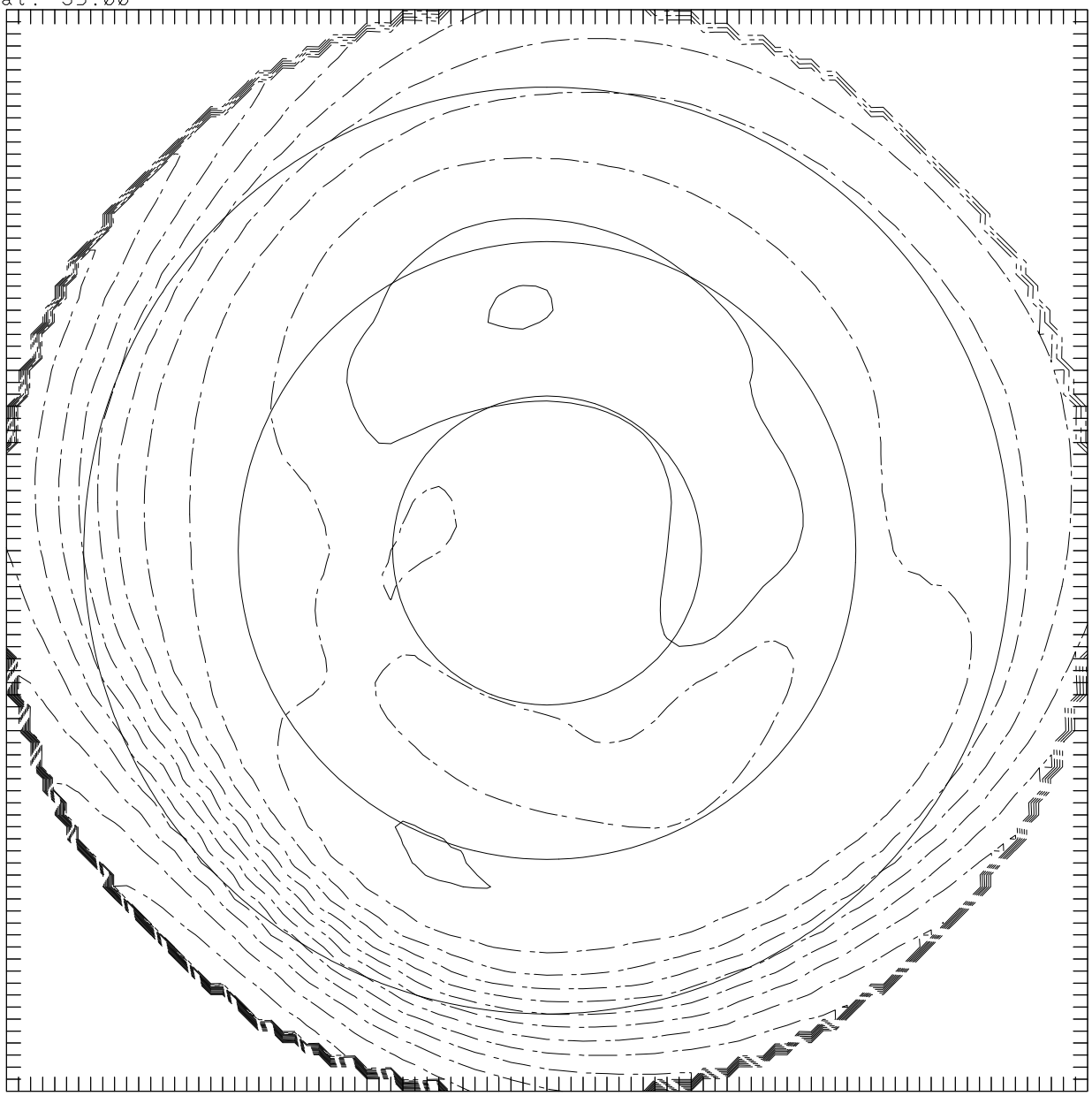

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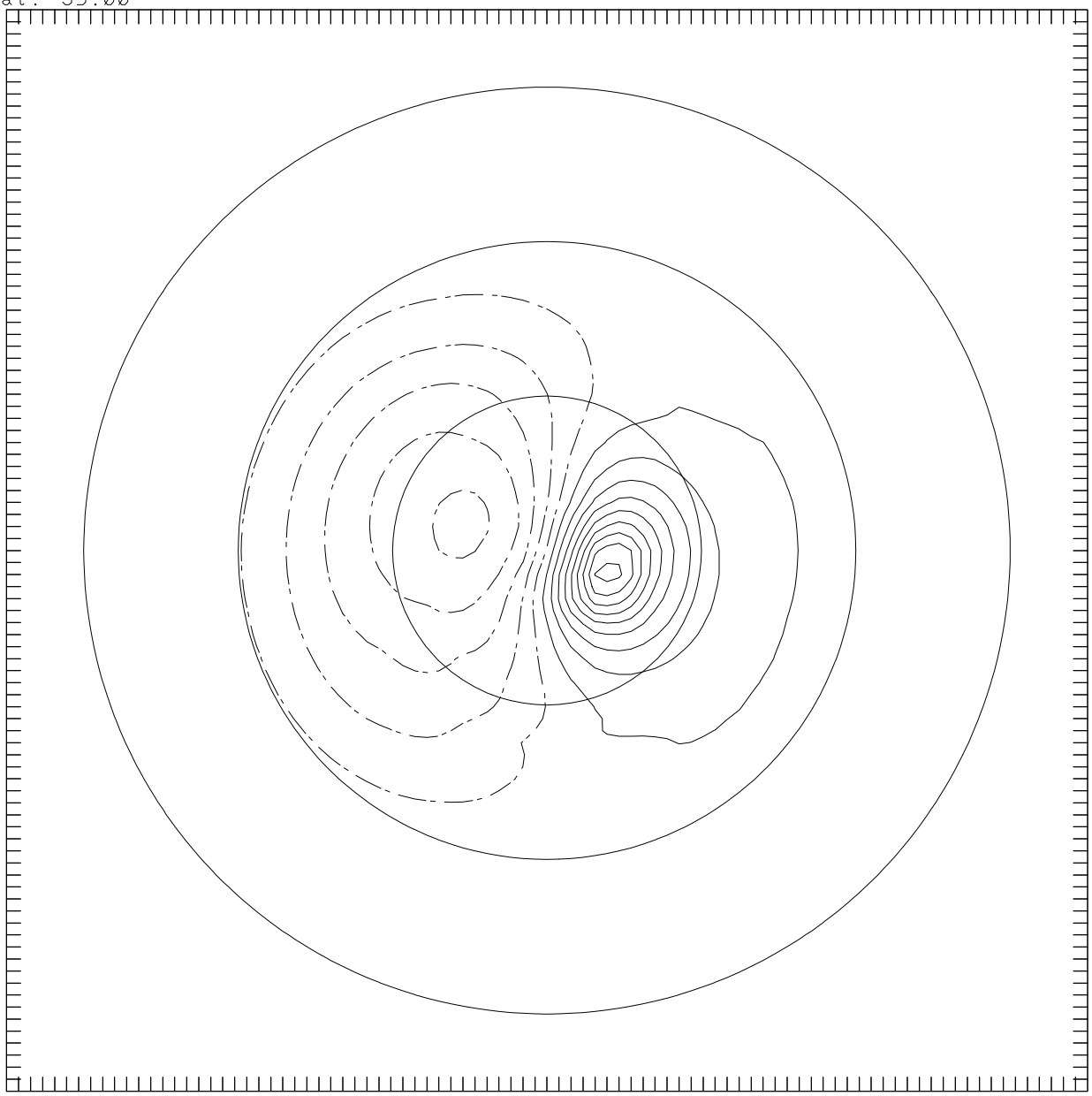

min-0.2218 fmax 0.0012
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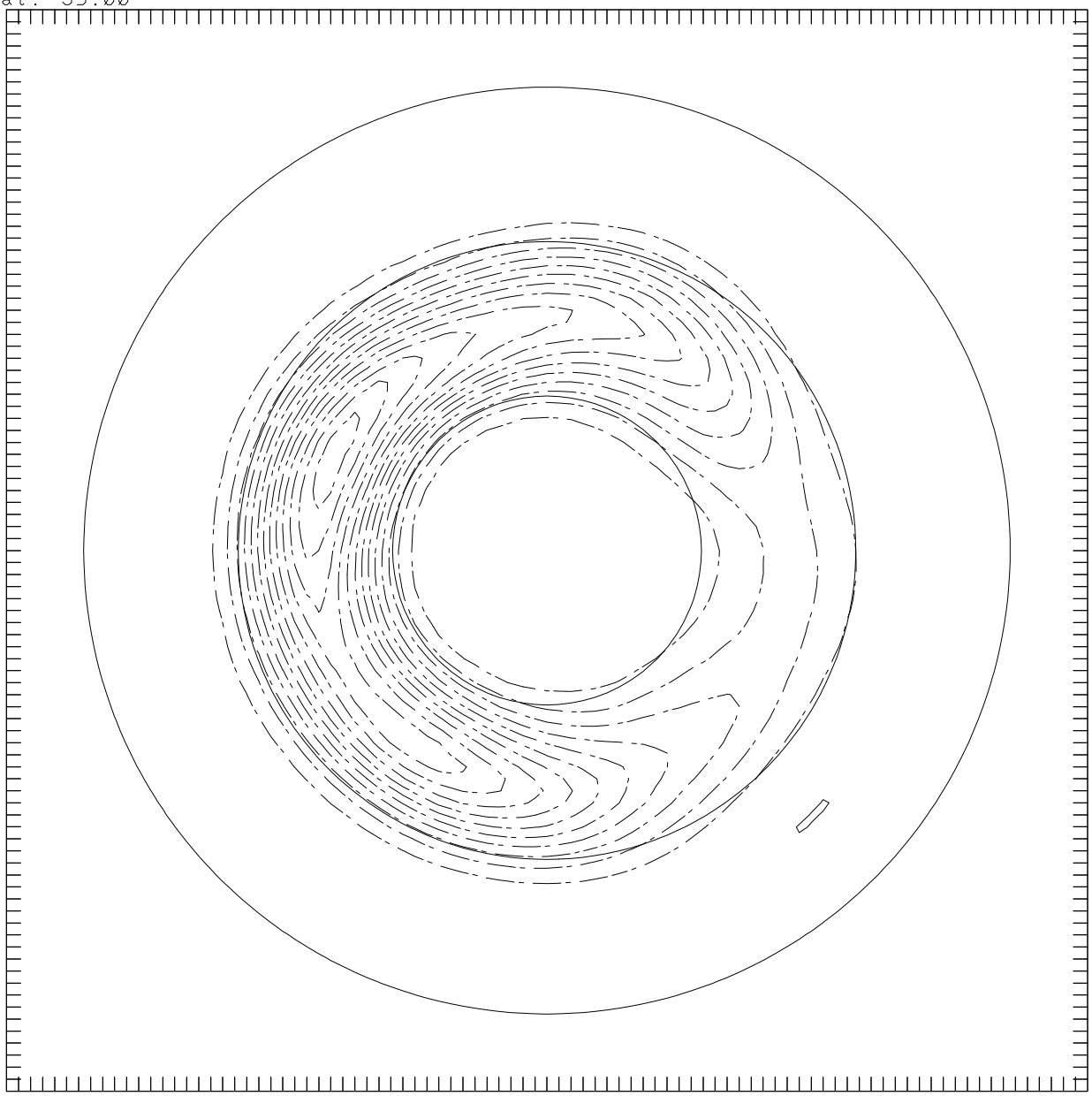

min 0.0000 0.0151
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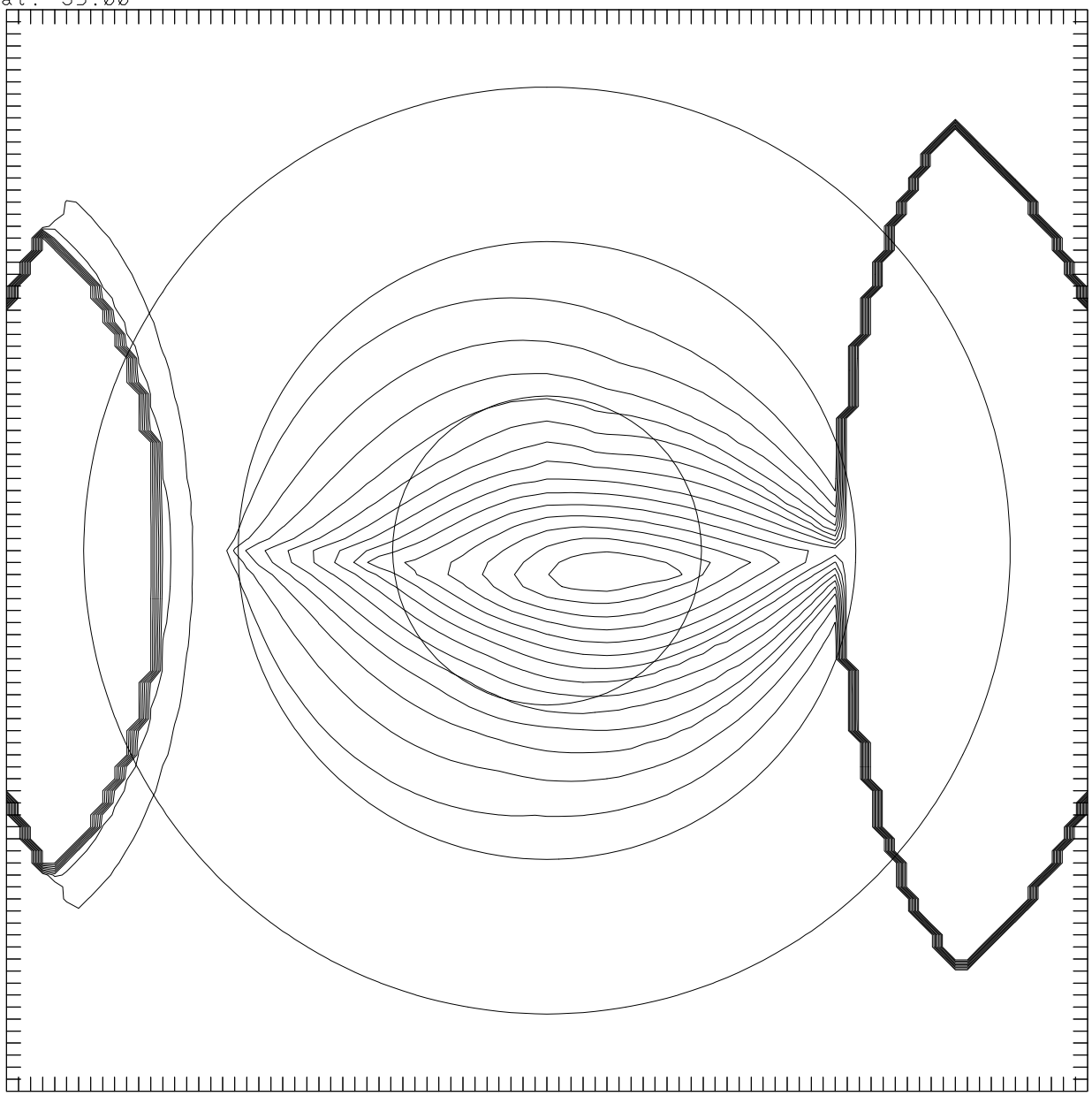

min 0.0000 0.0098
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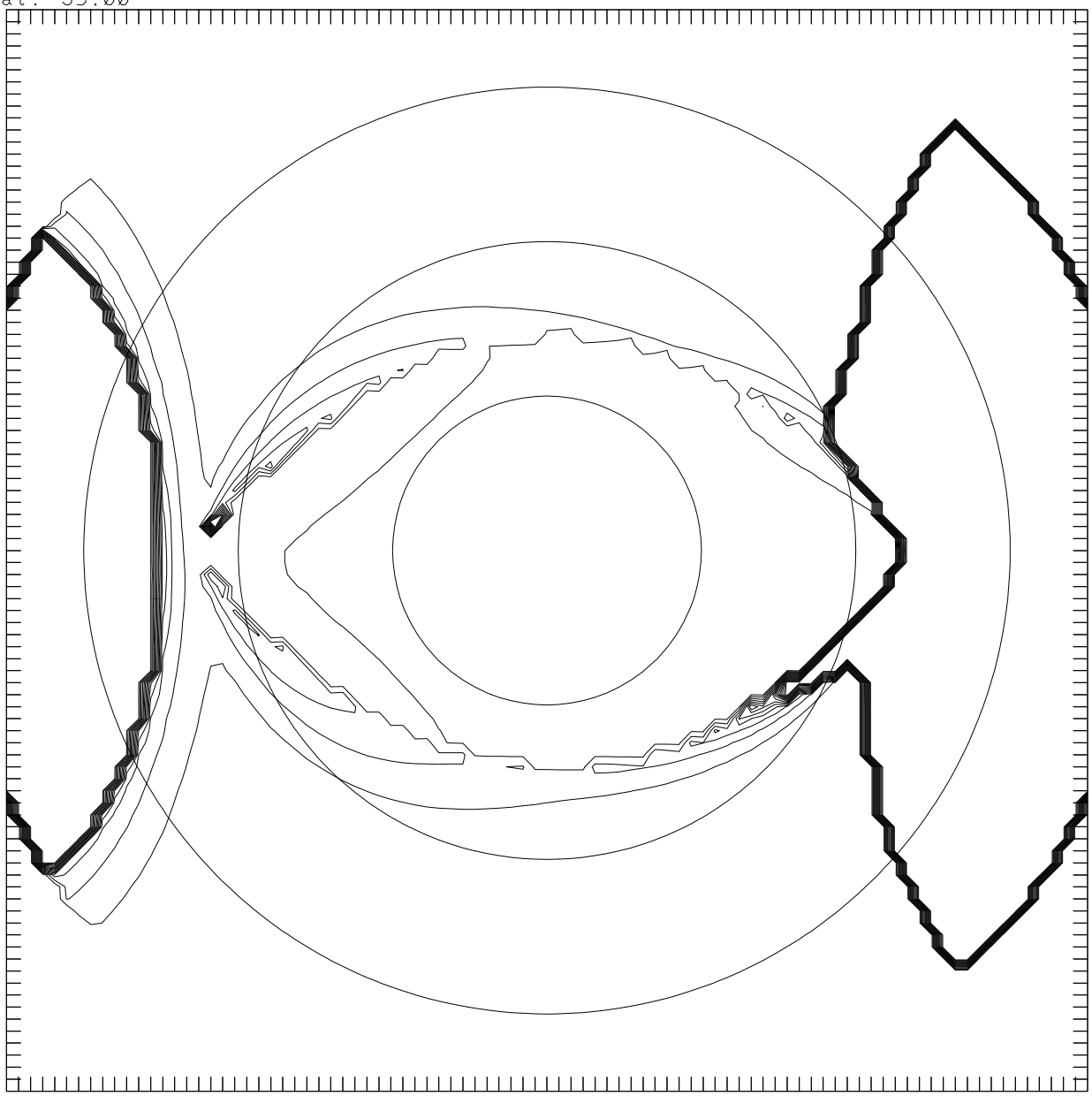
itempsth: intensity ut = 0.38



min 0.0000 0.1816
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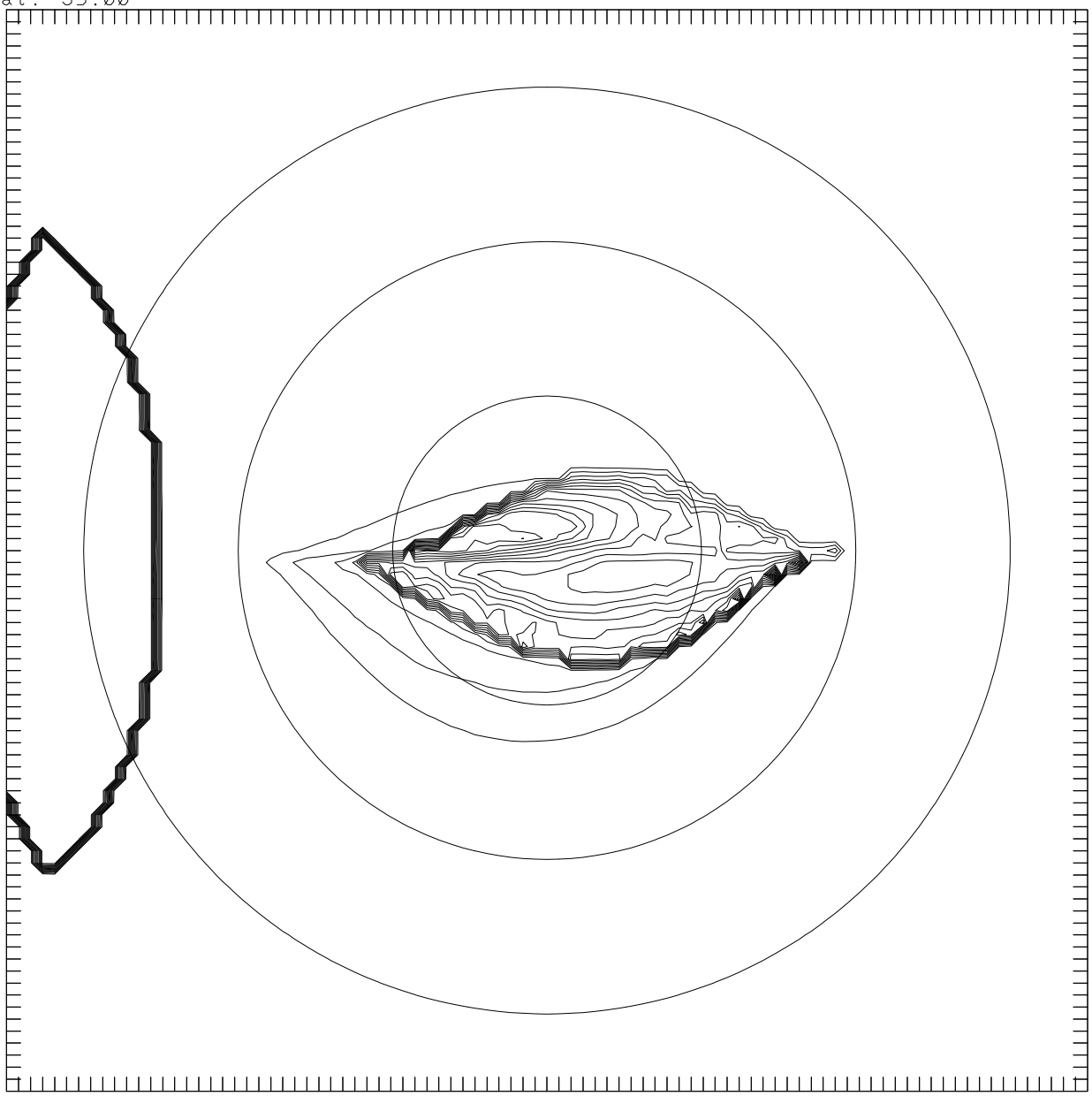

min 0.0000 0.1550
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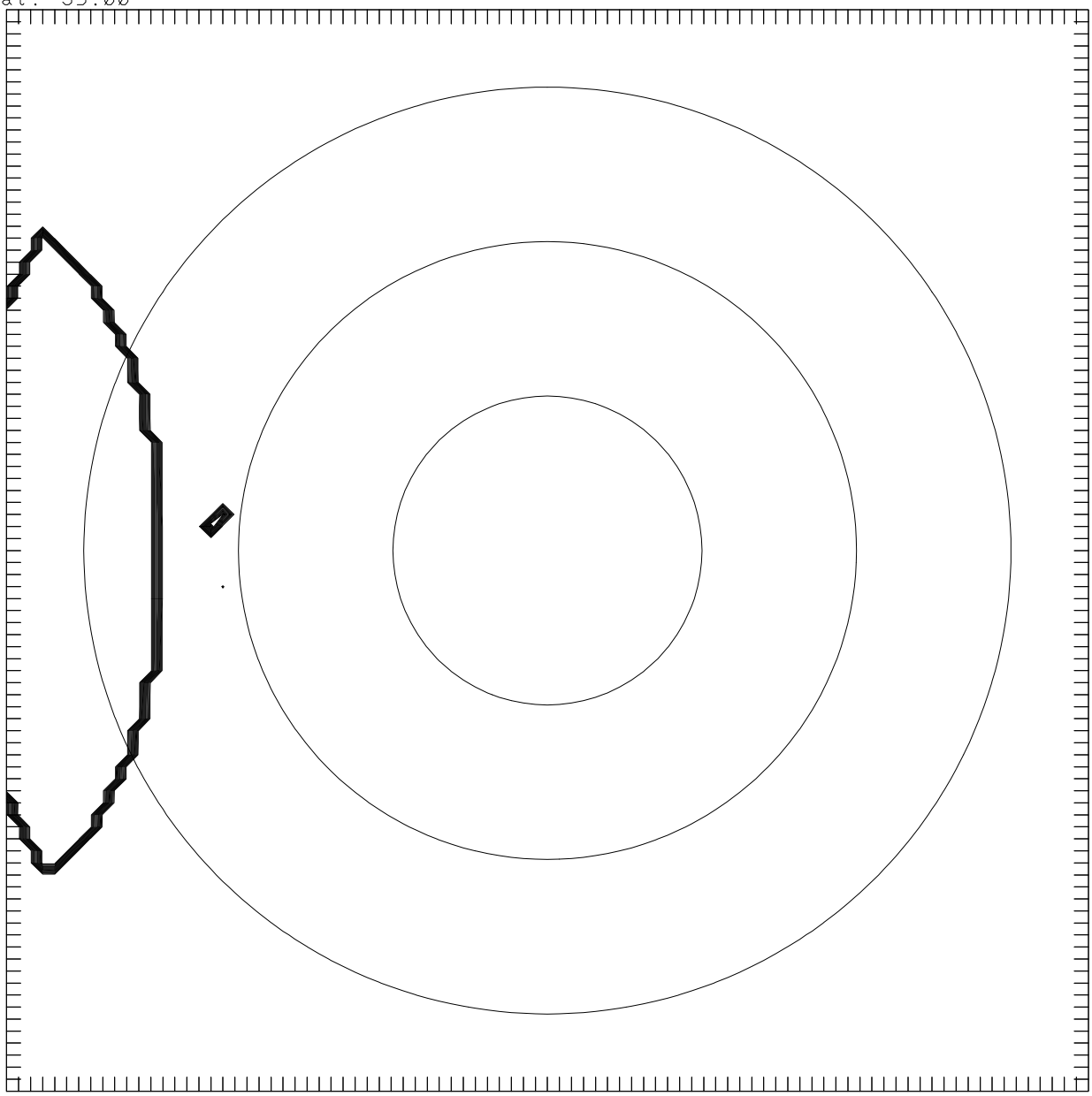

min 0.0000 0.0152
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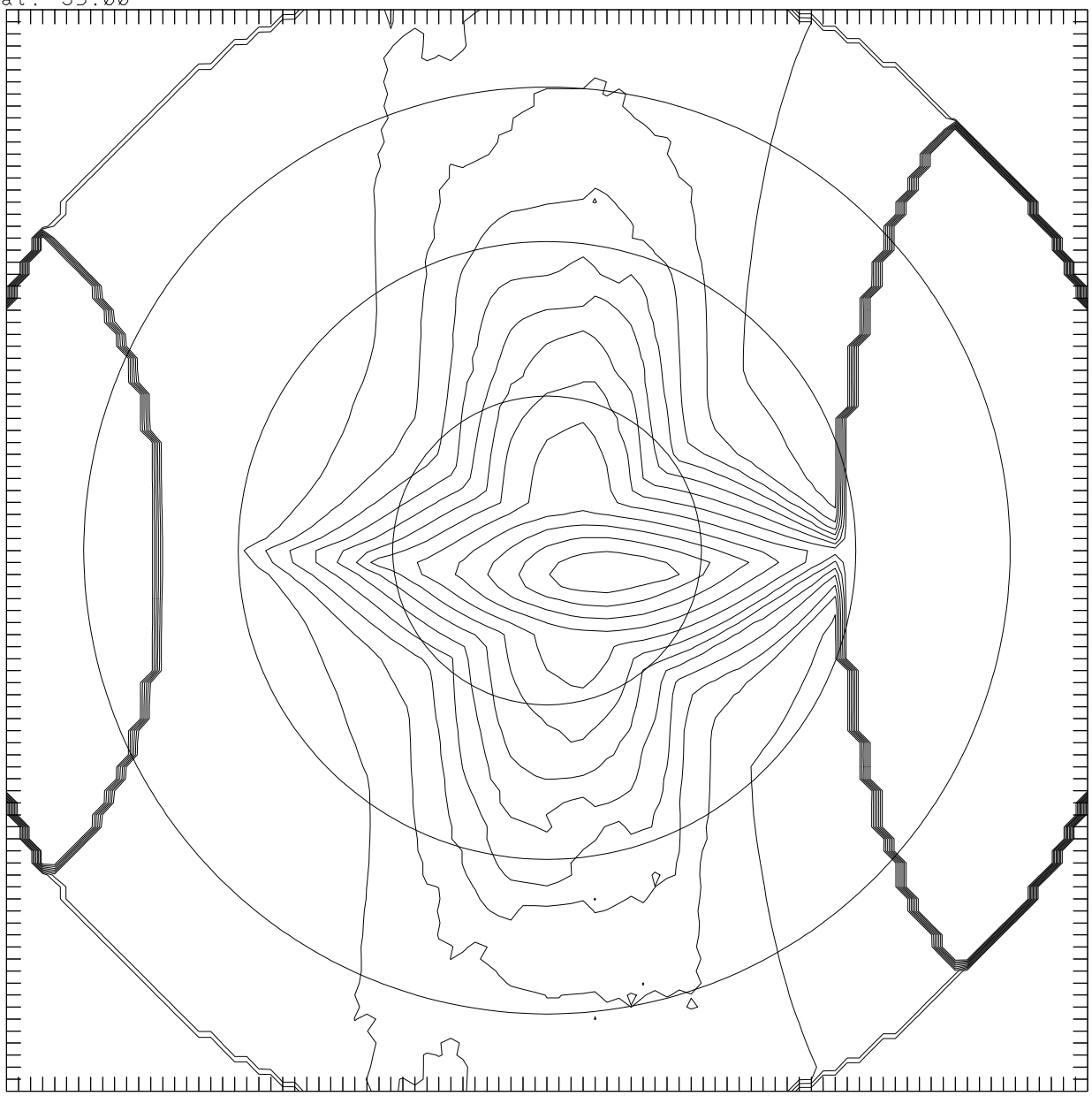

min 0.0000 0.0098
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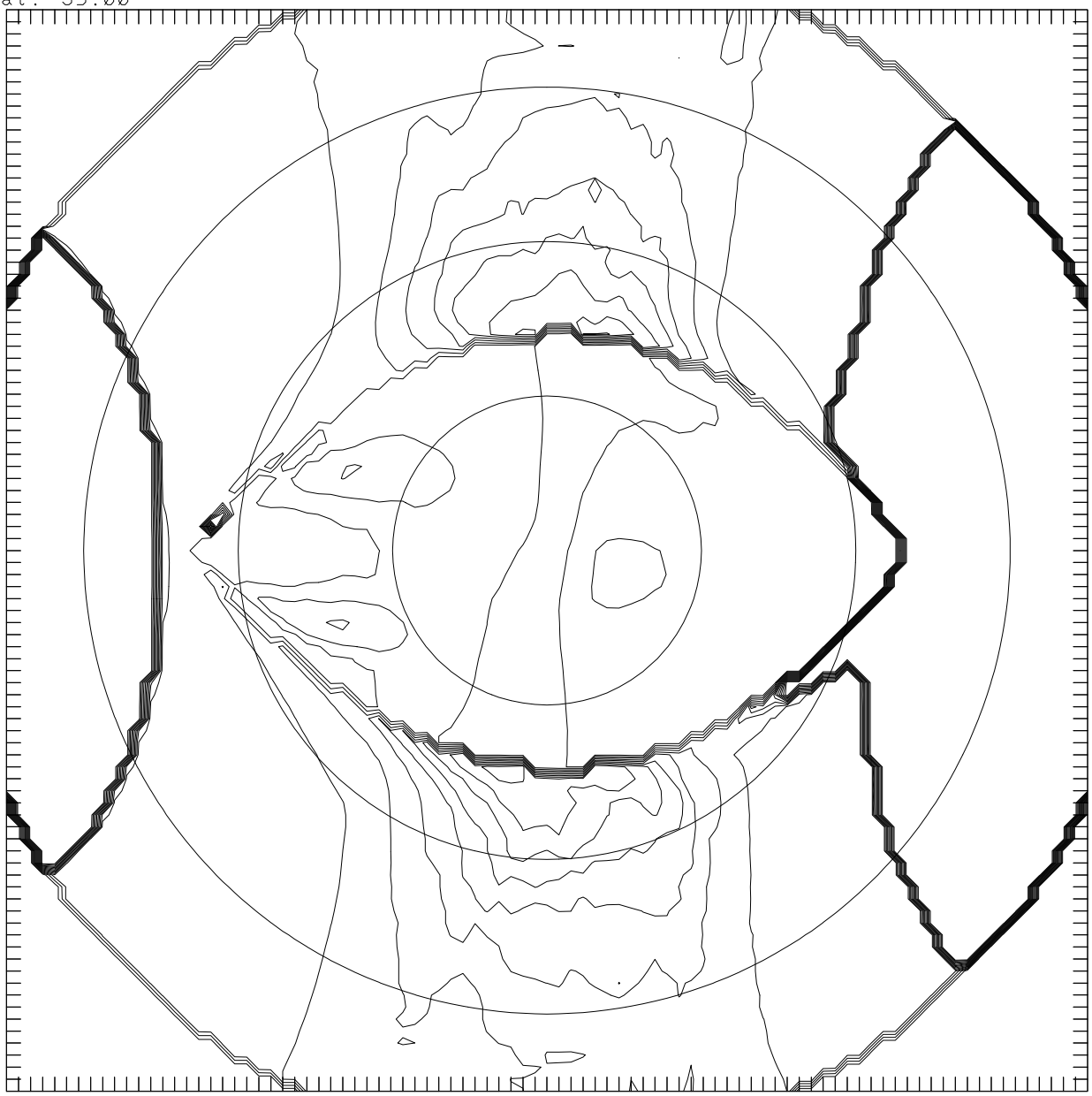

min 0.0000 0.2157
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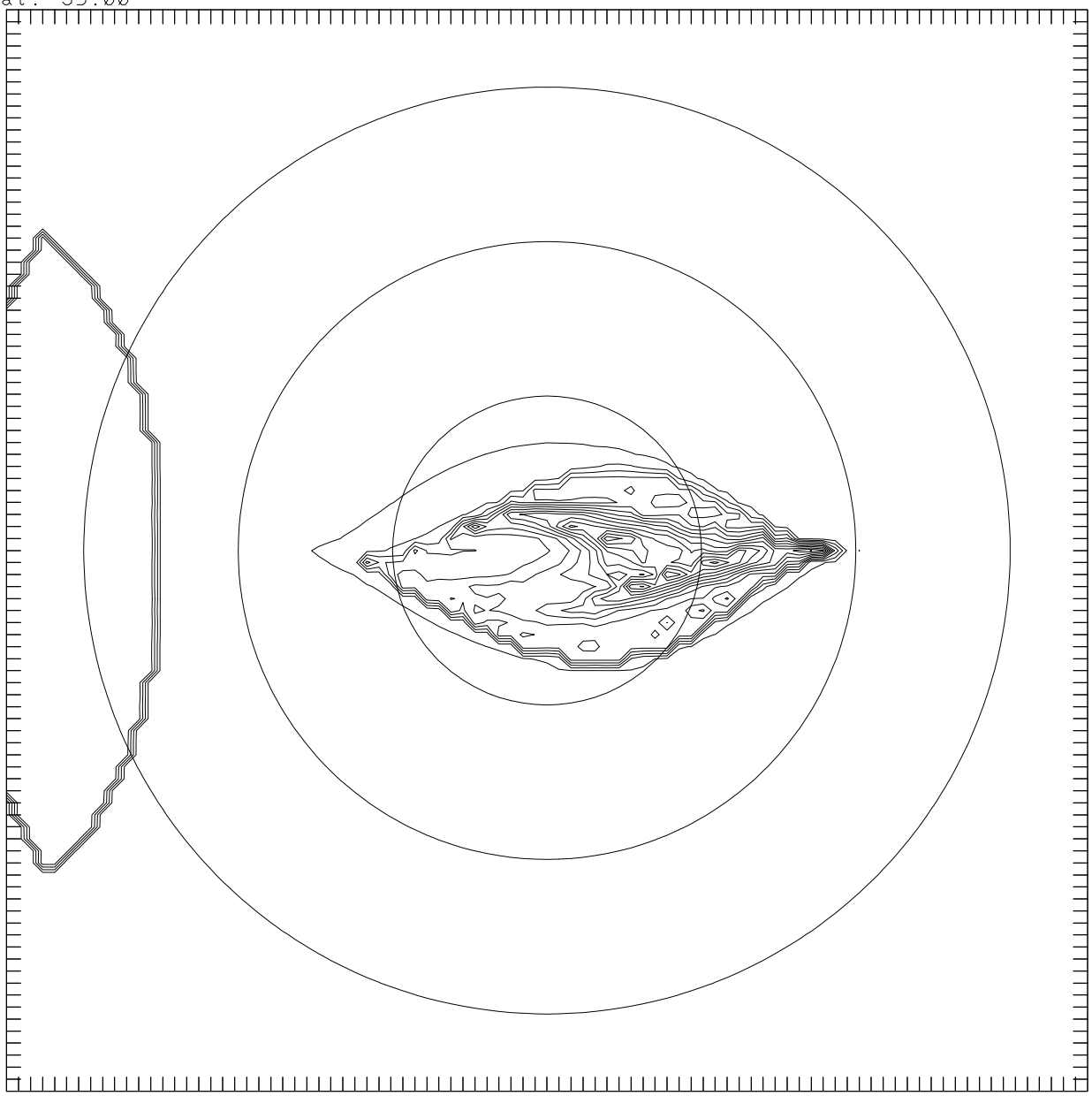

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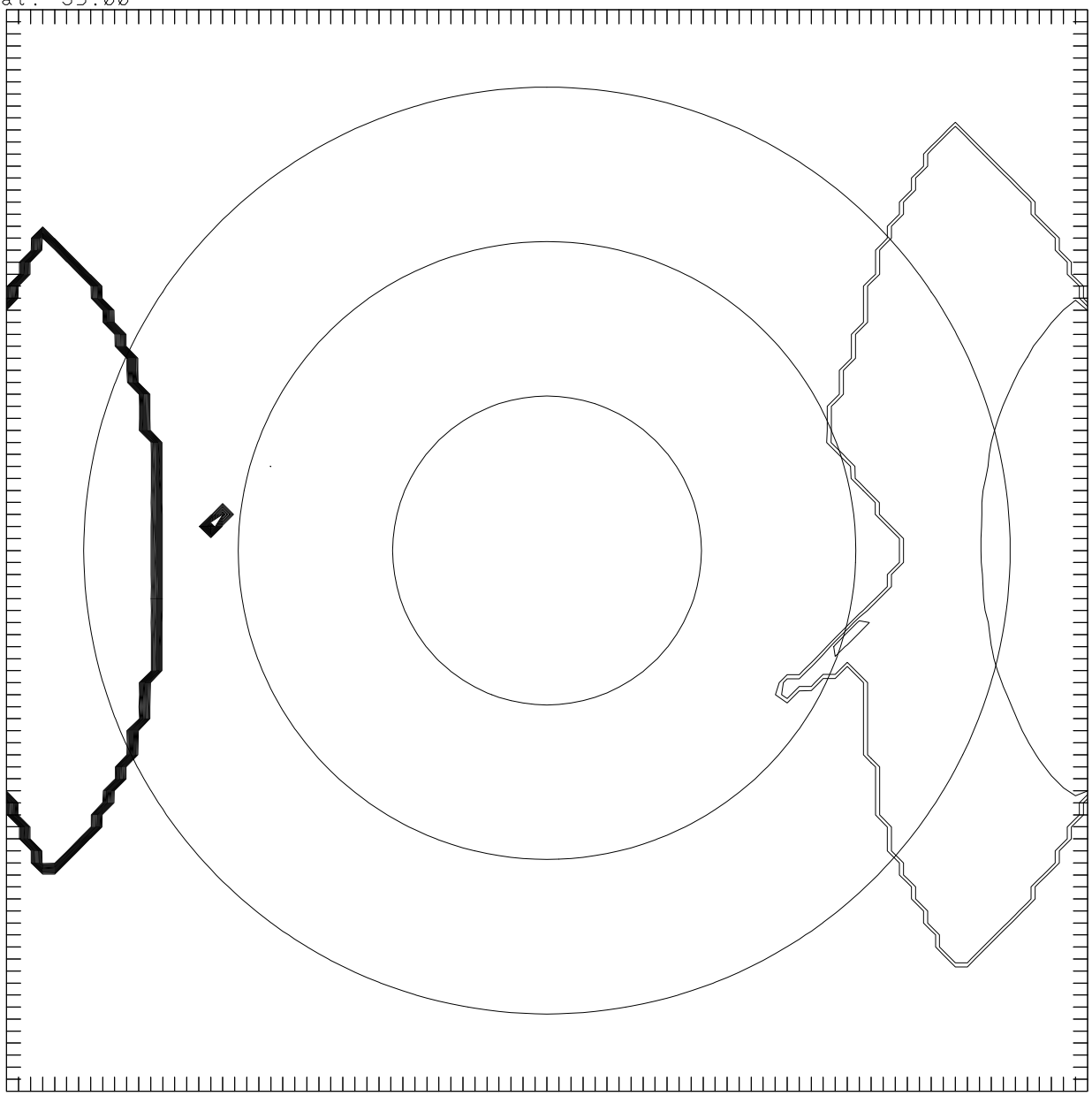

min 0.0000 0.0049
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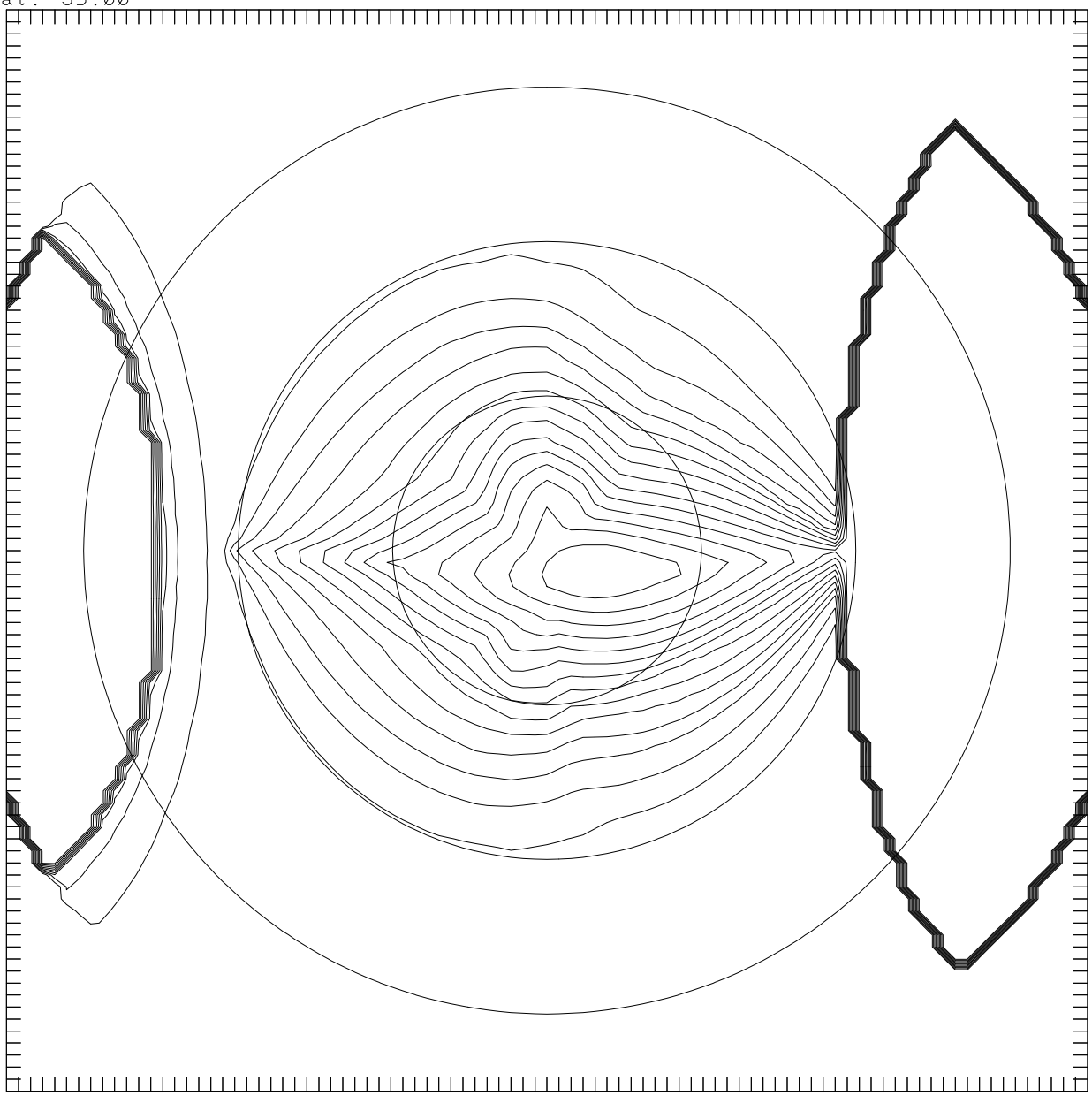

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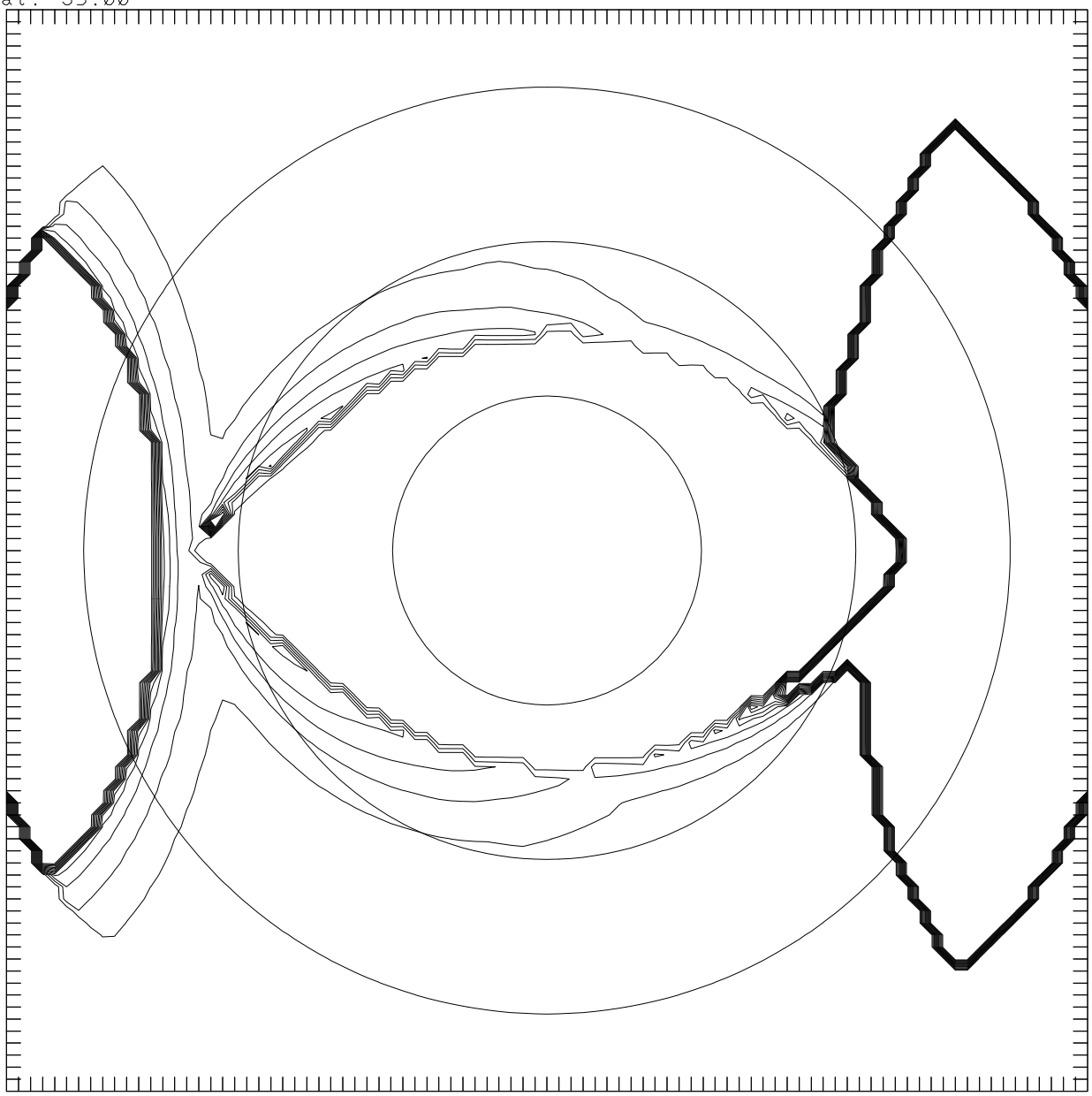

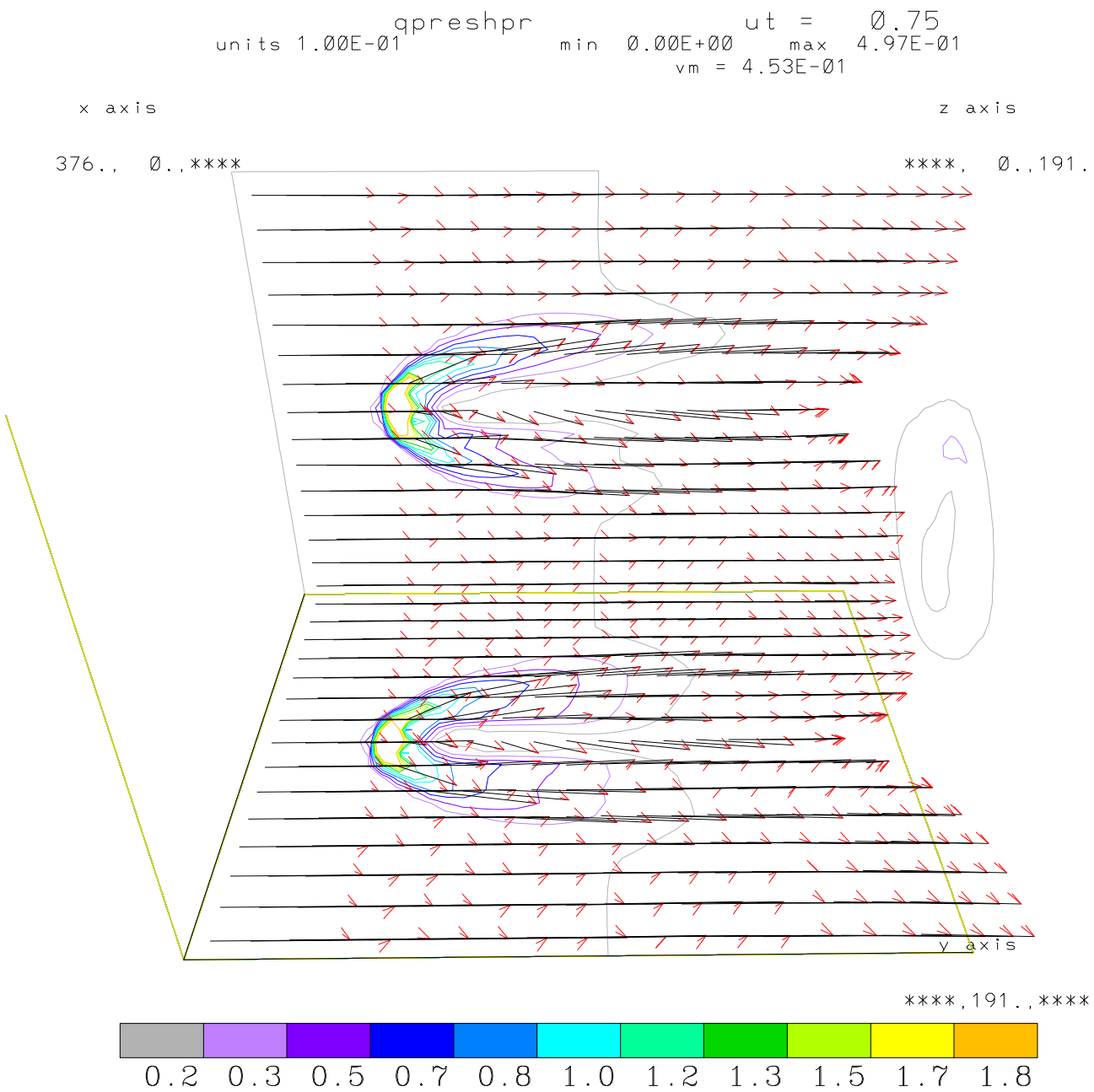
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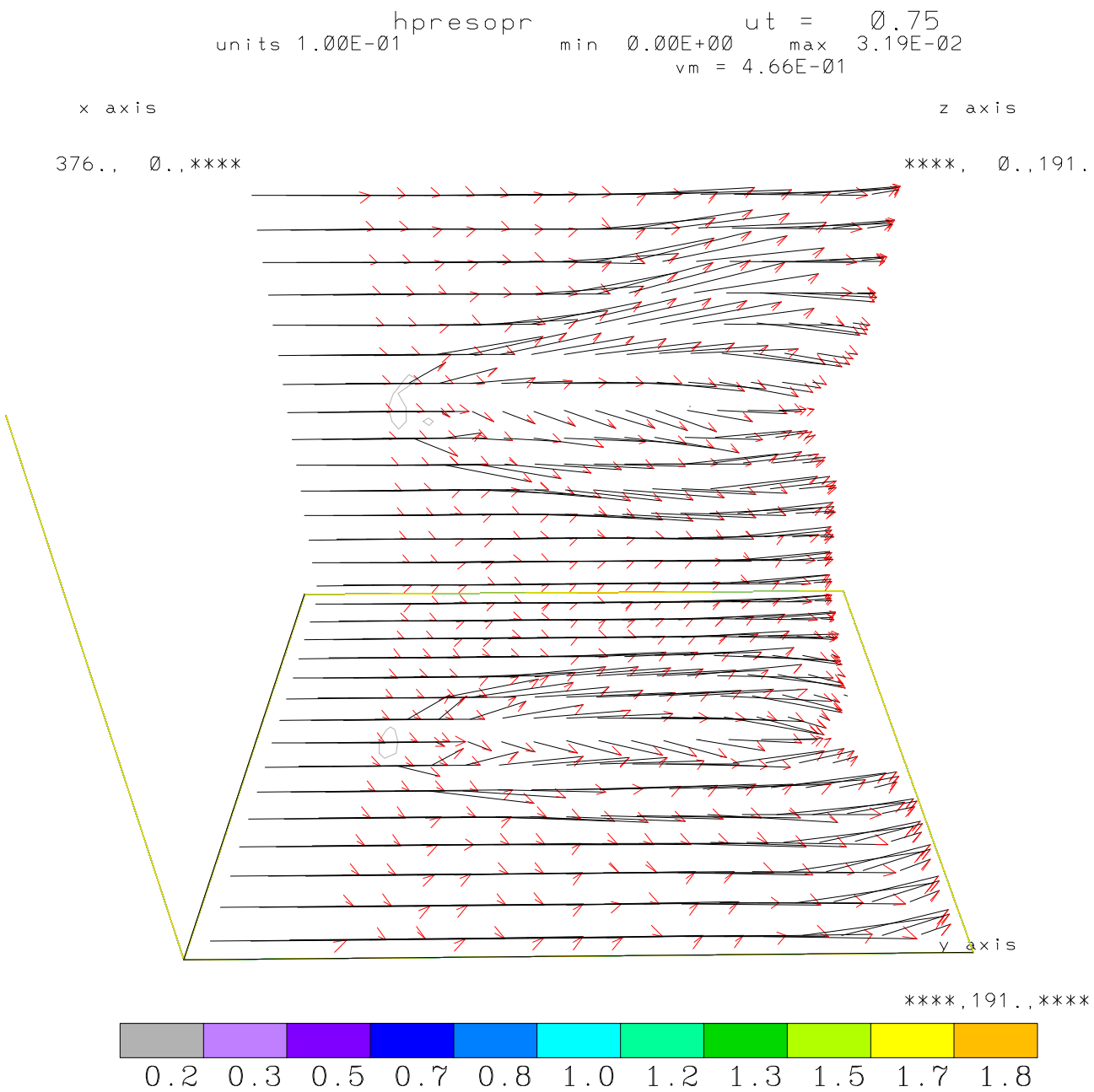
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8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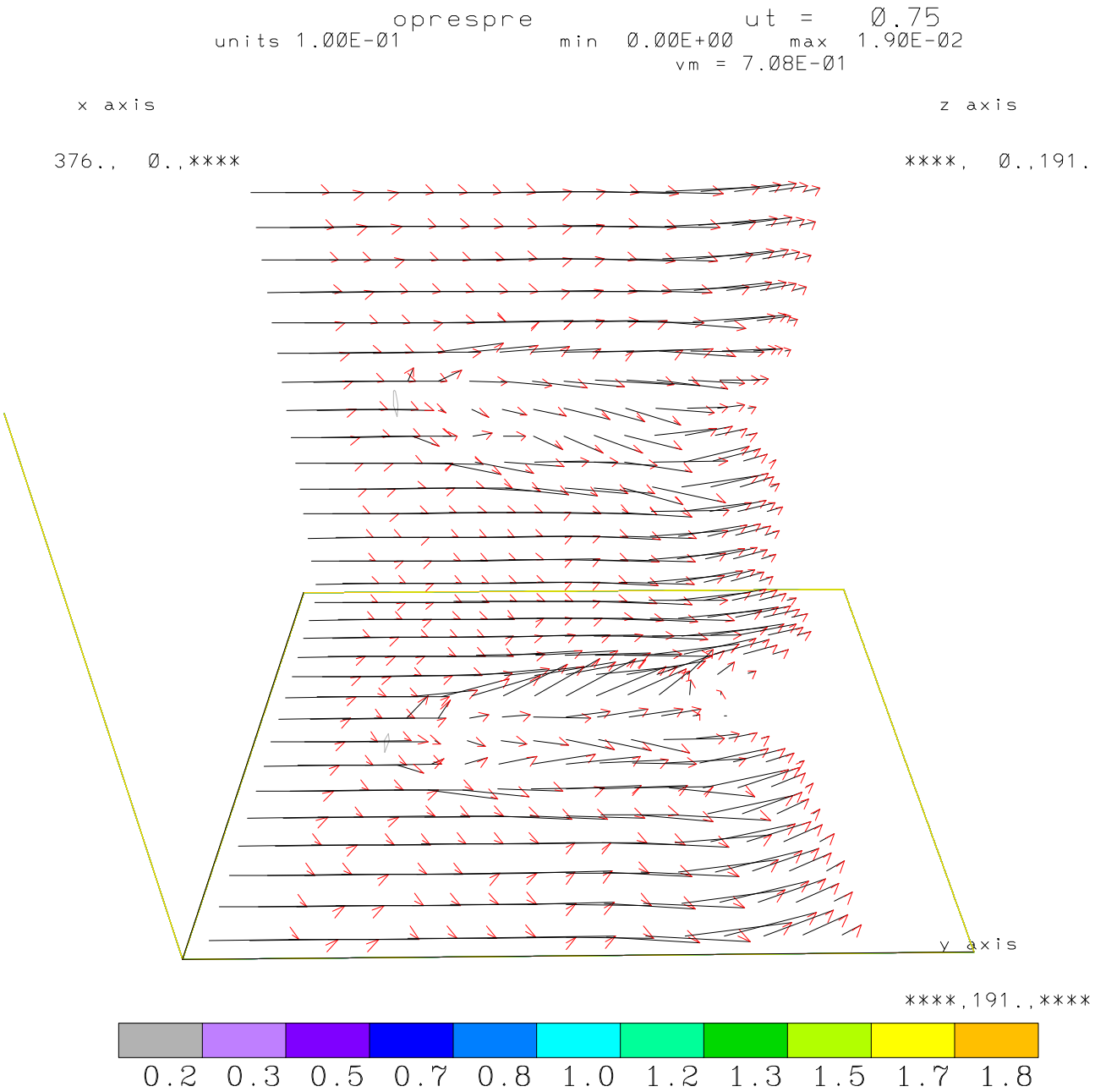
1.7
1.8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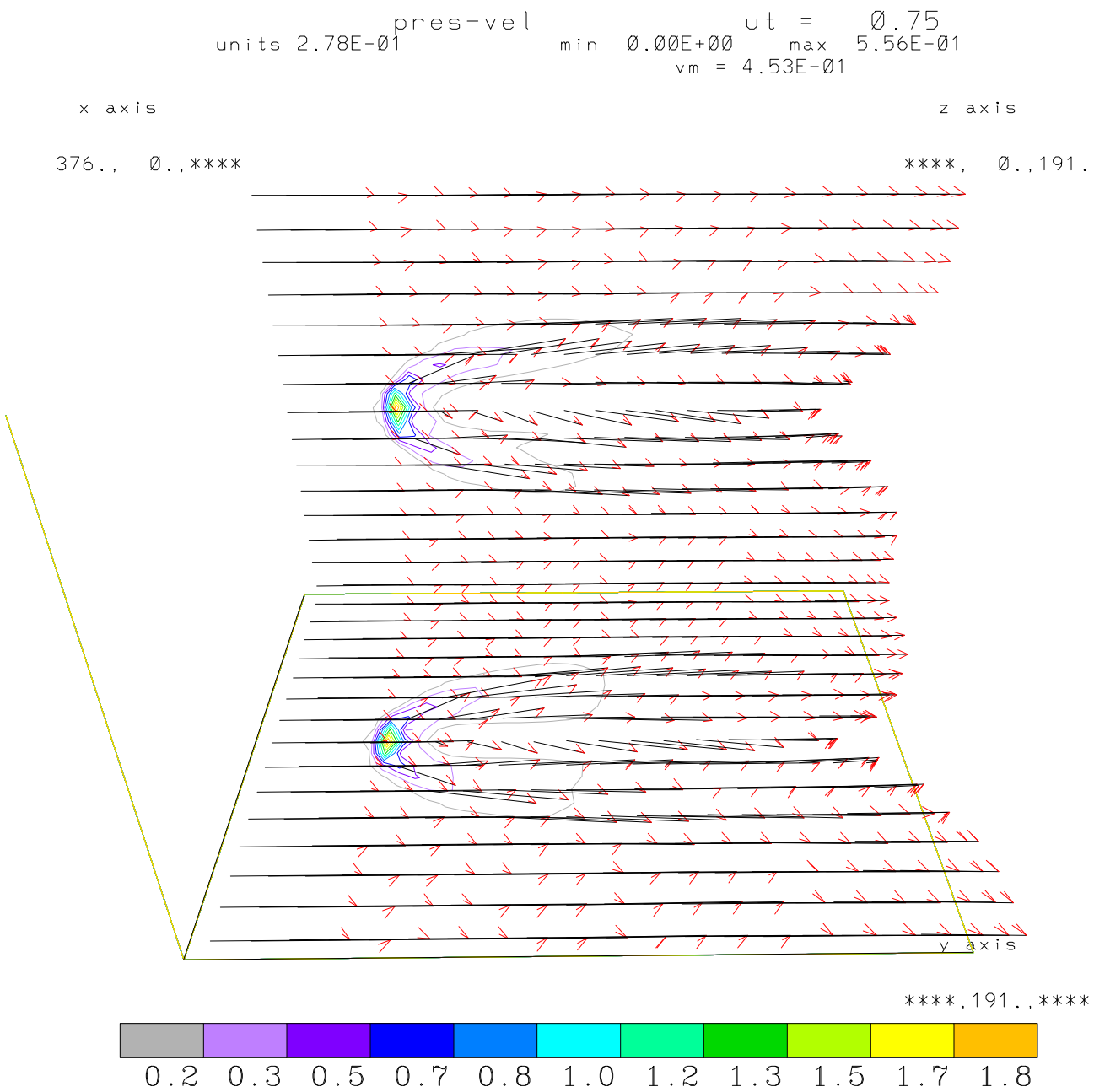
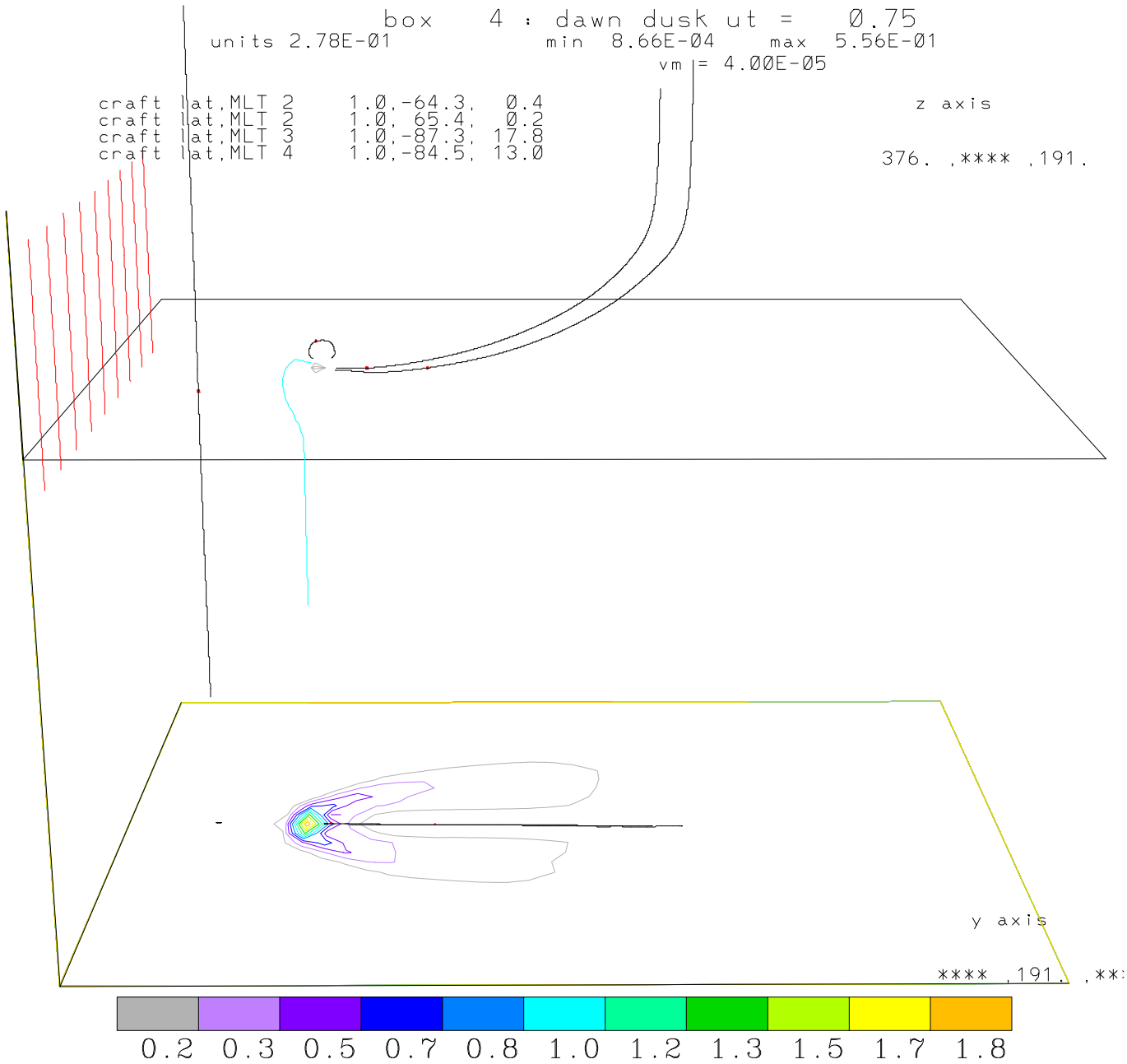
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.75
units 2.78E-01
min 0.00E+00
max 5.56E-01
vm = 4.53E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 4 : dawn dusk ut = 0.75
units 2.78E-01
min 8.66E-04
max 5.56E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-64.3, 0.4
craft lat,MLT 2 1.0, 65.4, 0.2
craft lat,MLT 3 1.0,-87.3, 17.8
craft lat,MLT 4 1.0,-84.5, 13.0
z axis
376. ,**** ,191.
y axis
**** ,191. ,**:
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

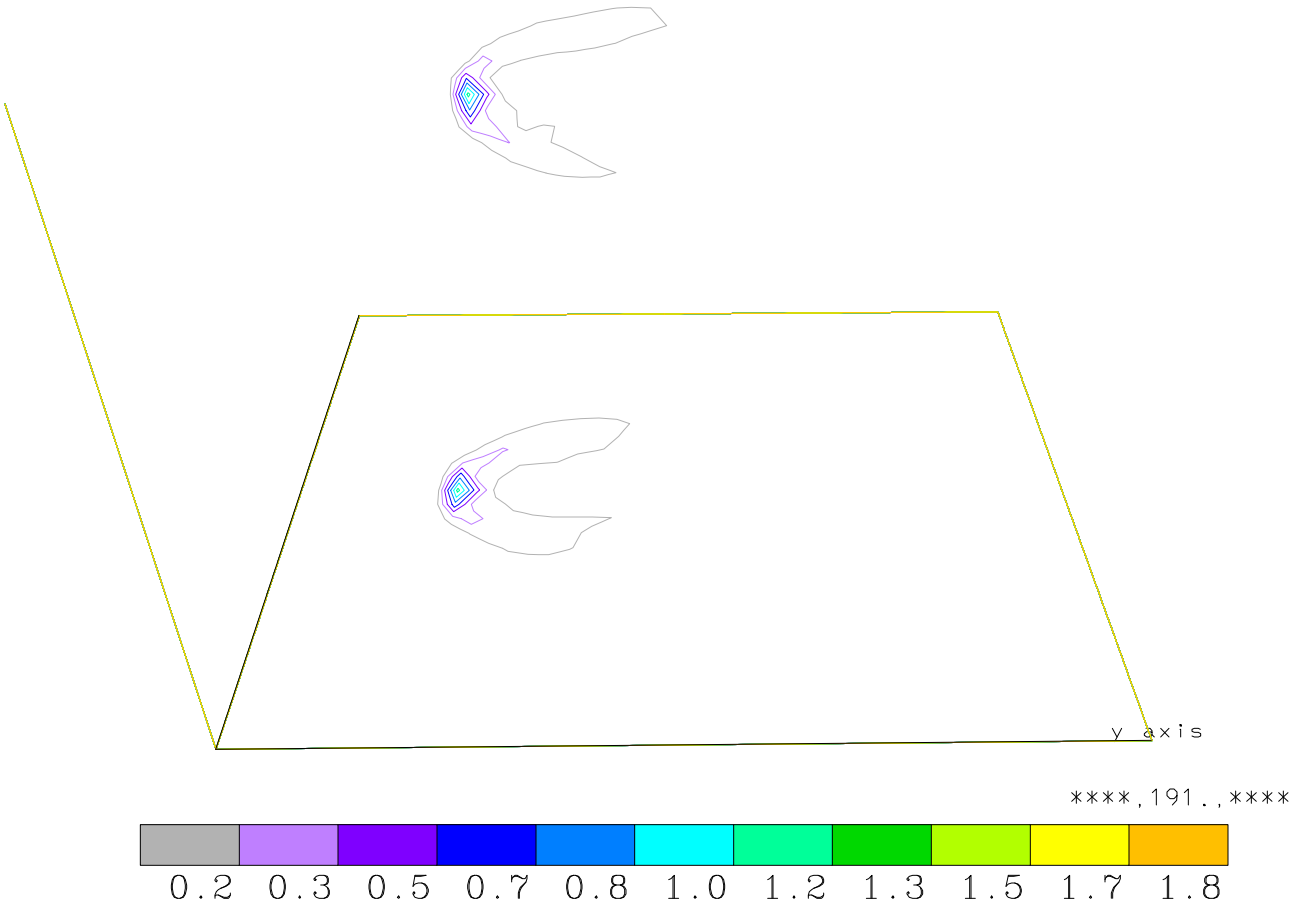
epresq t ut = 0.75

units 2.00E-01 min 0.00E+00 max 2.46E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



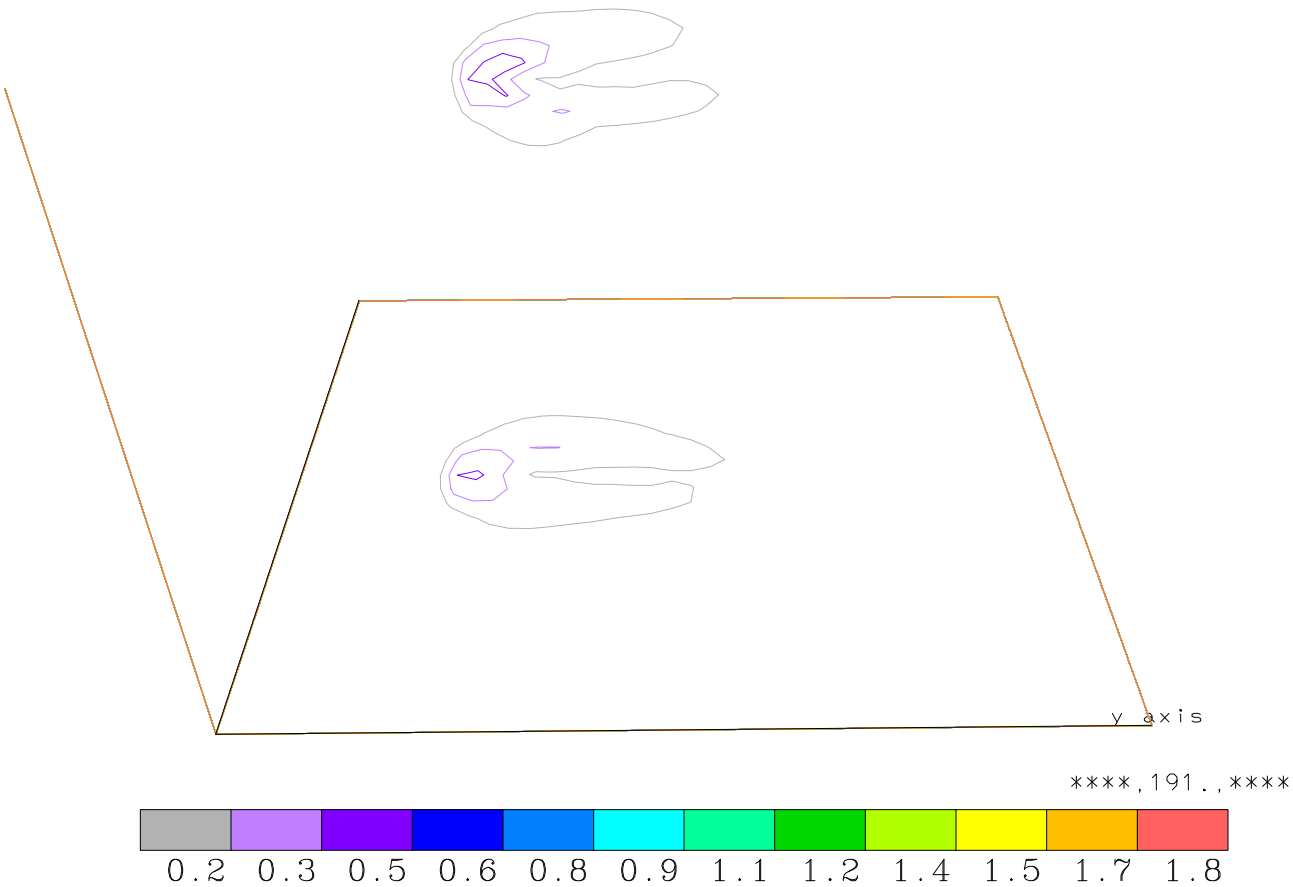
q temph ut = 0.75

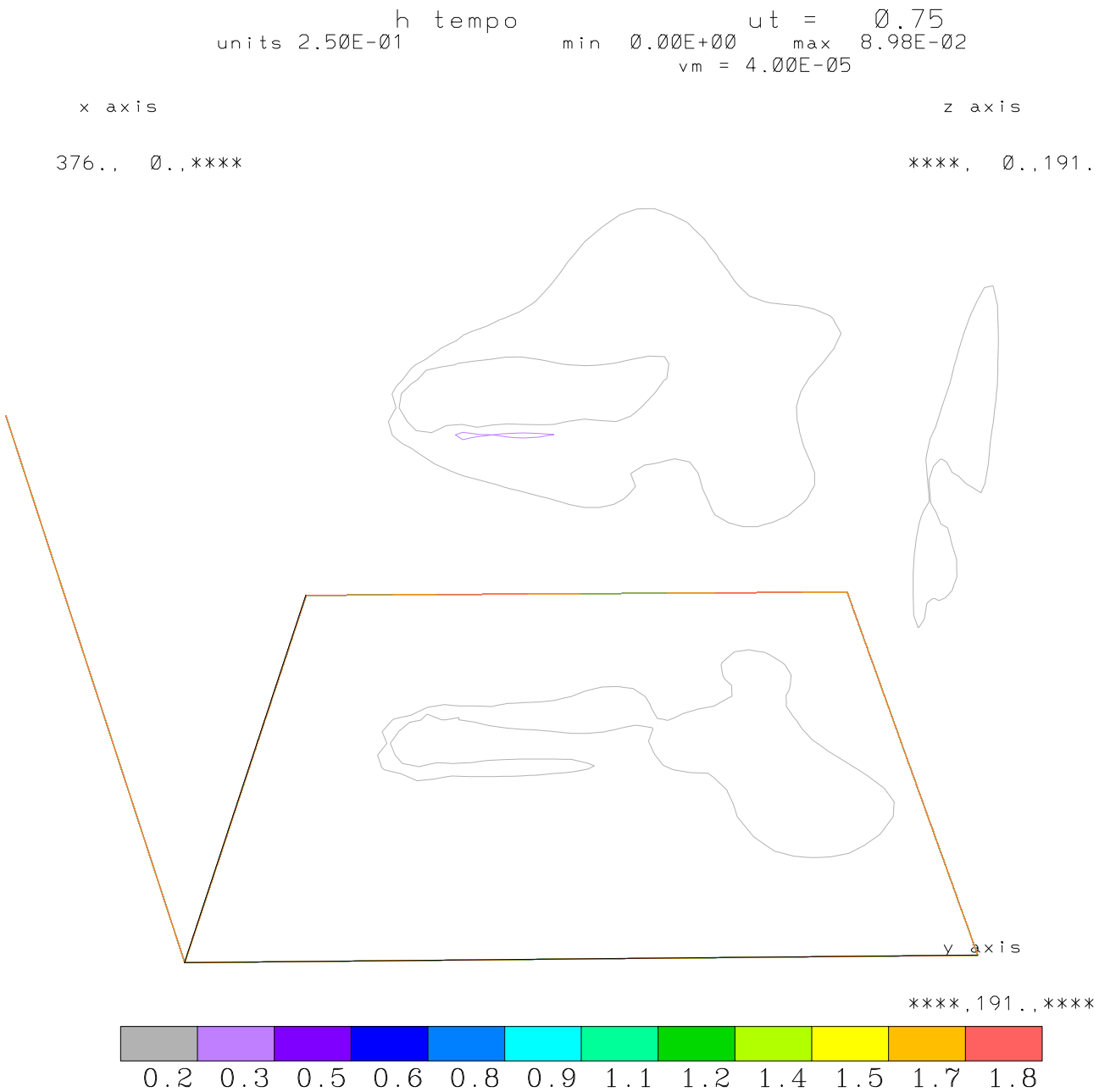
units 2.50E-01 min 0.00E+00 max 1.46E-01

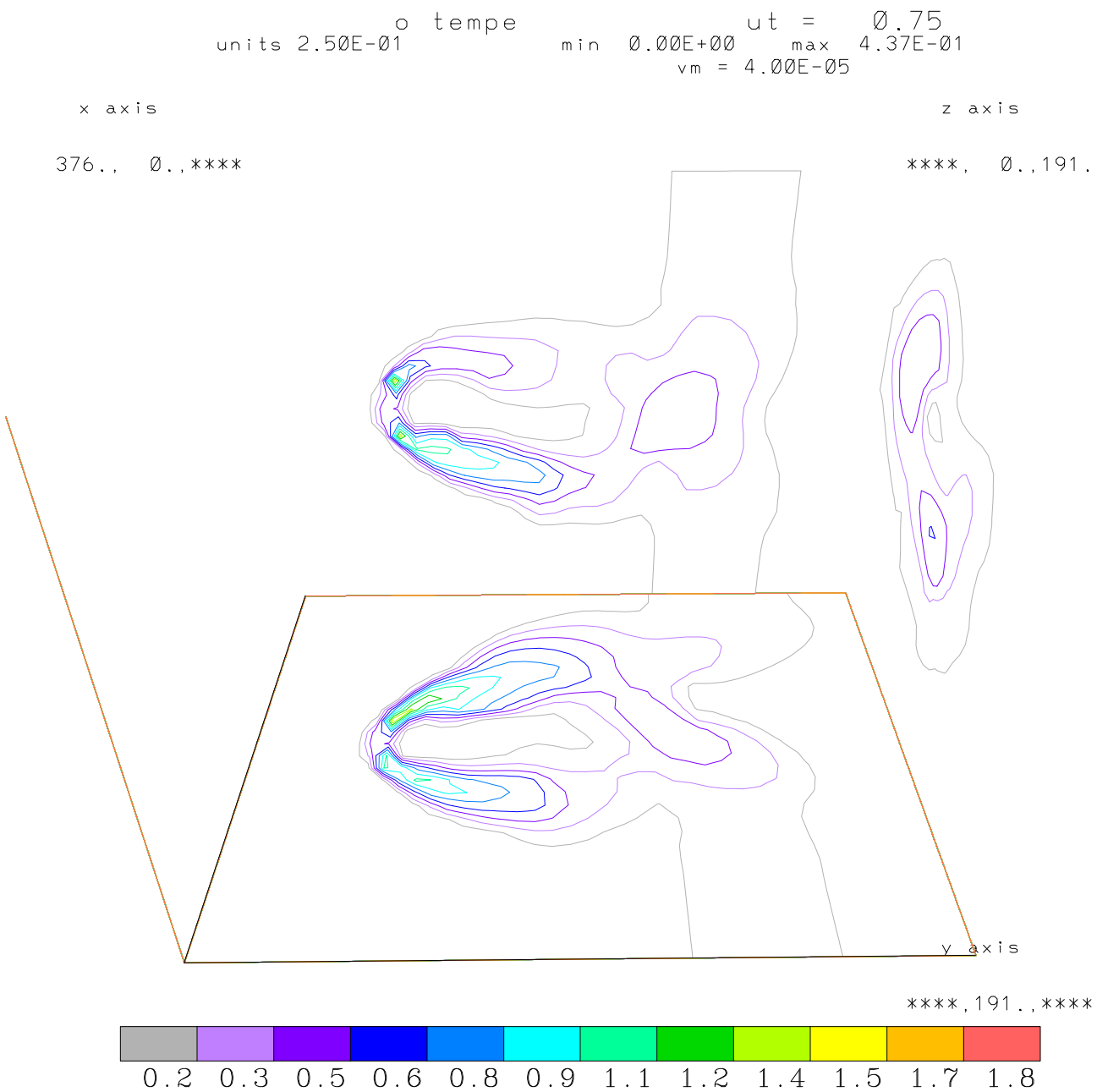
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




h tempo
ut = 0.75
units 2.50E-01
min 0.00E+00
max 8.98E-02
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 0.75
units 2.50E-01
min 0.00E+00
max 4.37E-01
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

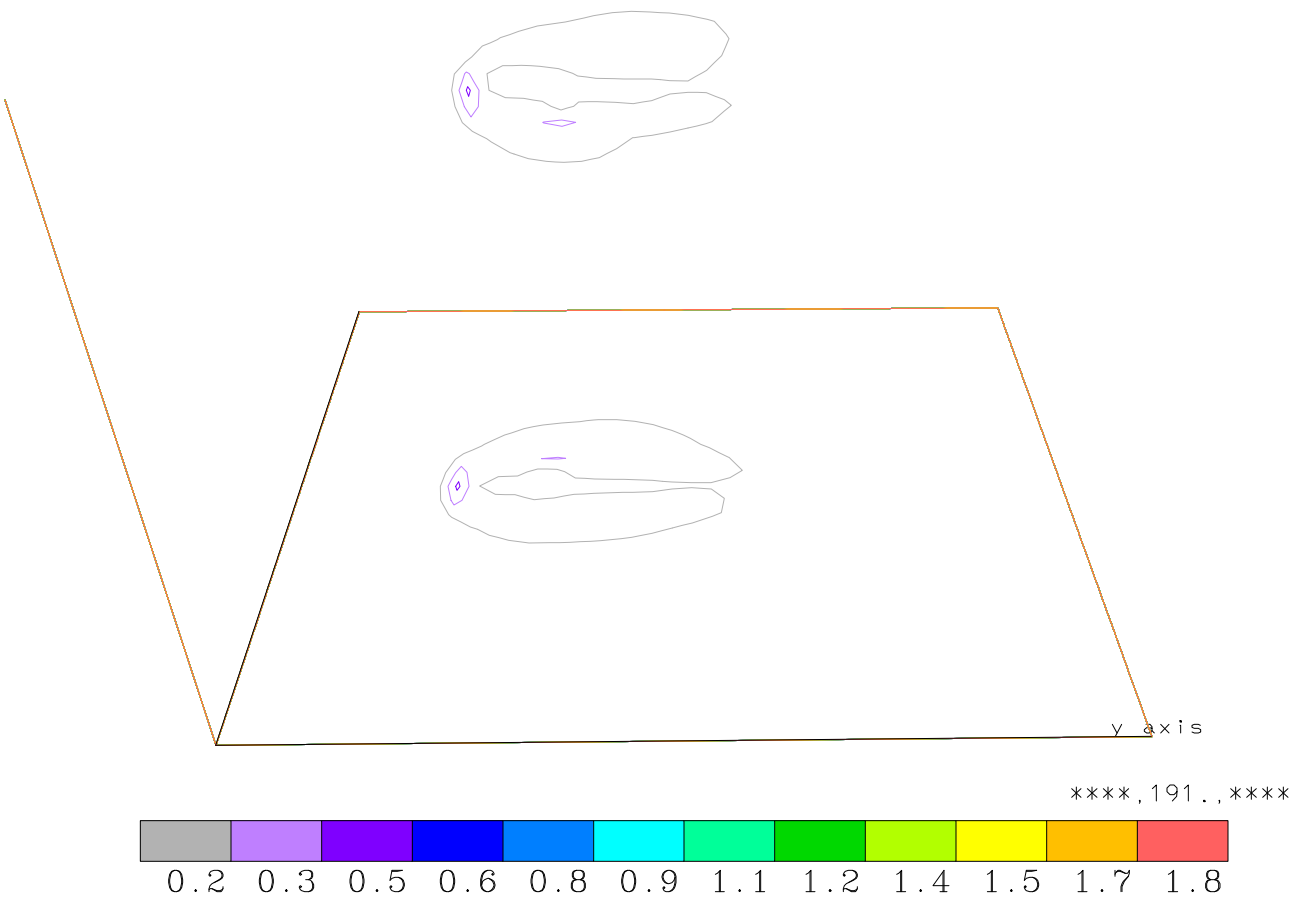
e tempq ut = 0.75

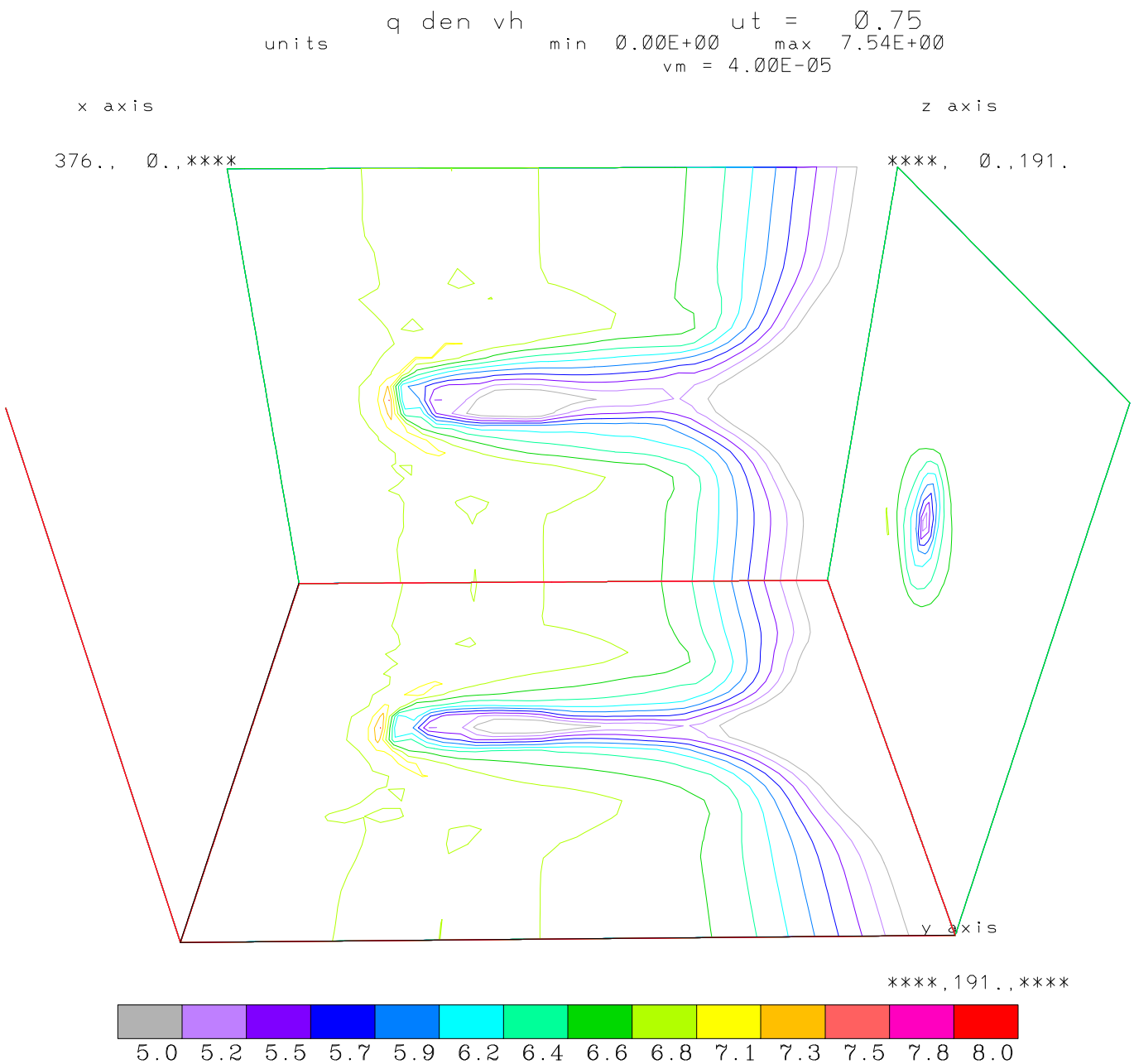
units 1.12E-01 min 0.00E+00 max 5.60E-02

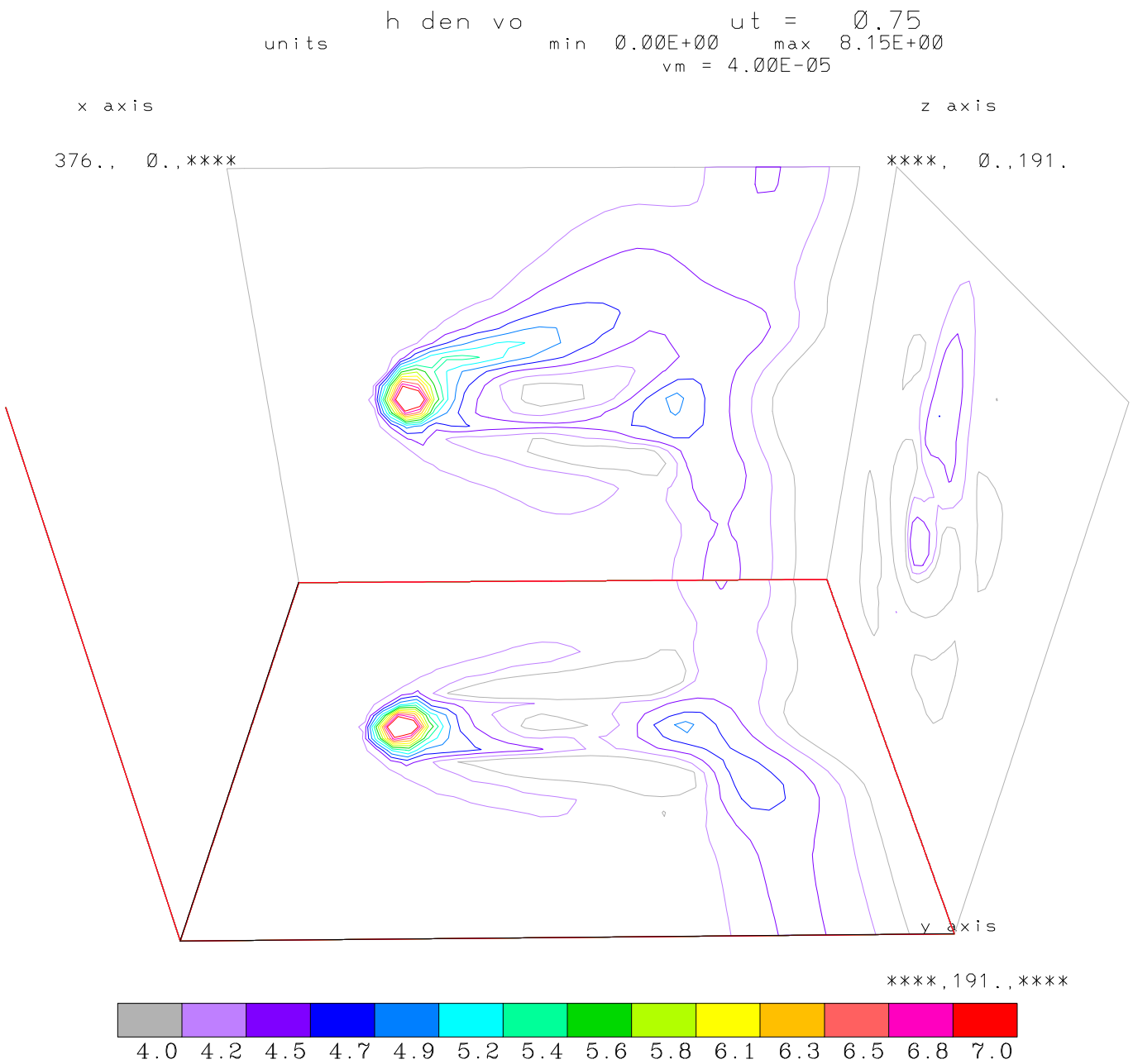
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




q den vh
ut = 0.75
units
min 0.00E+00
max 7.54E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 0.75
units min 0.00E+00 max 8.15E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

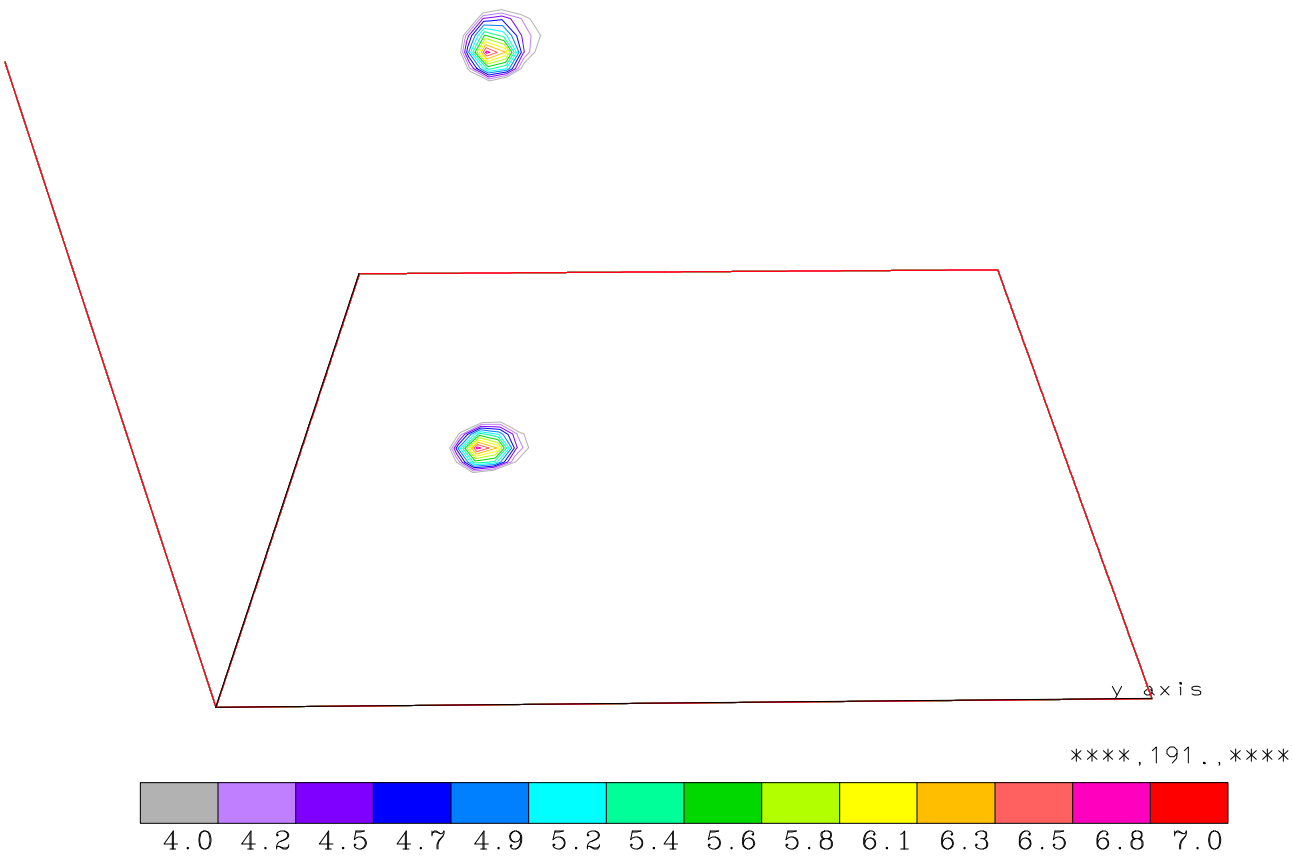
o den vt ut = 0.75

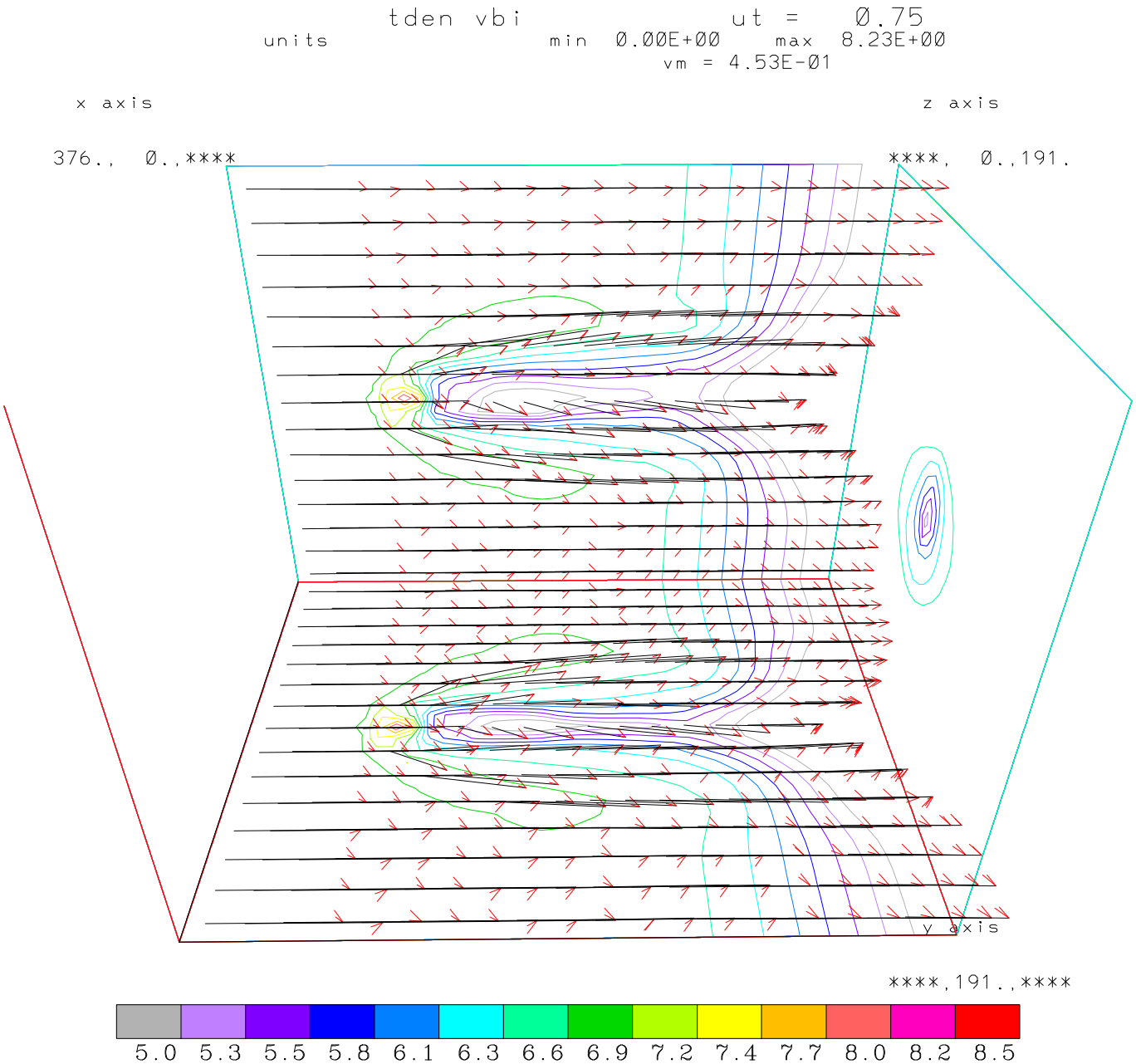
units min 0.00E+00 max 6.87E+00

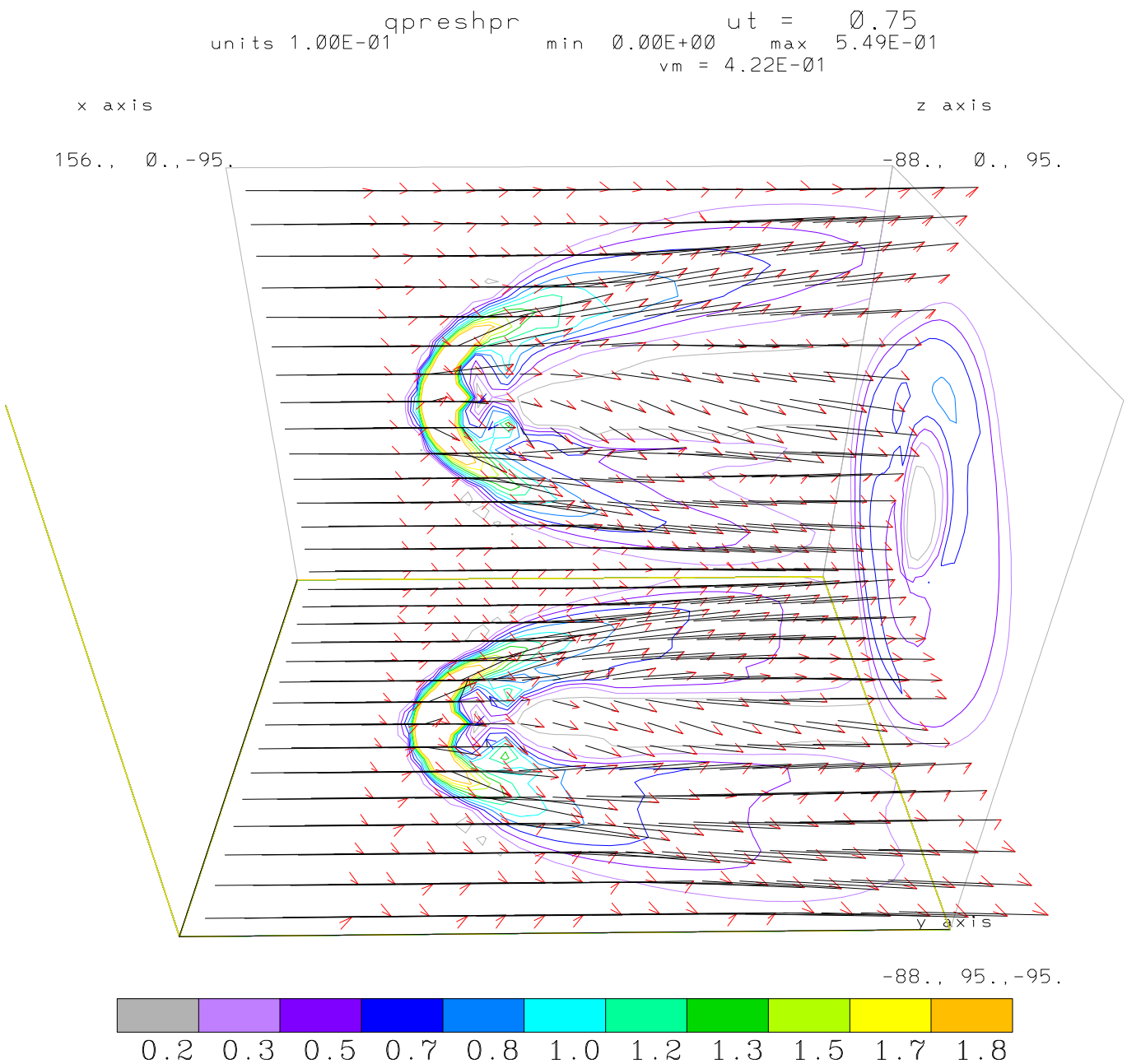
vm = 4.00E-05

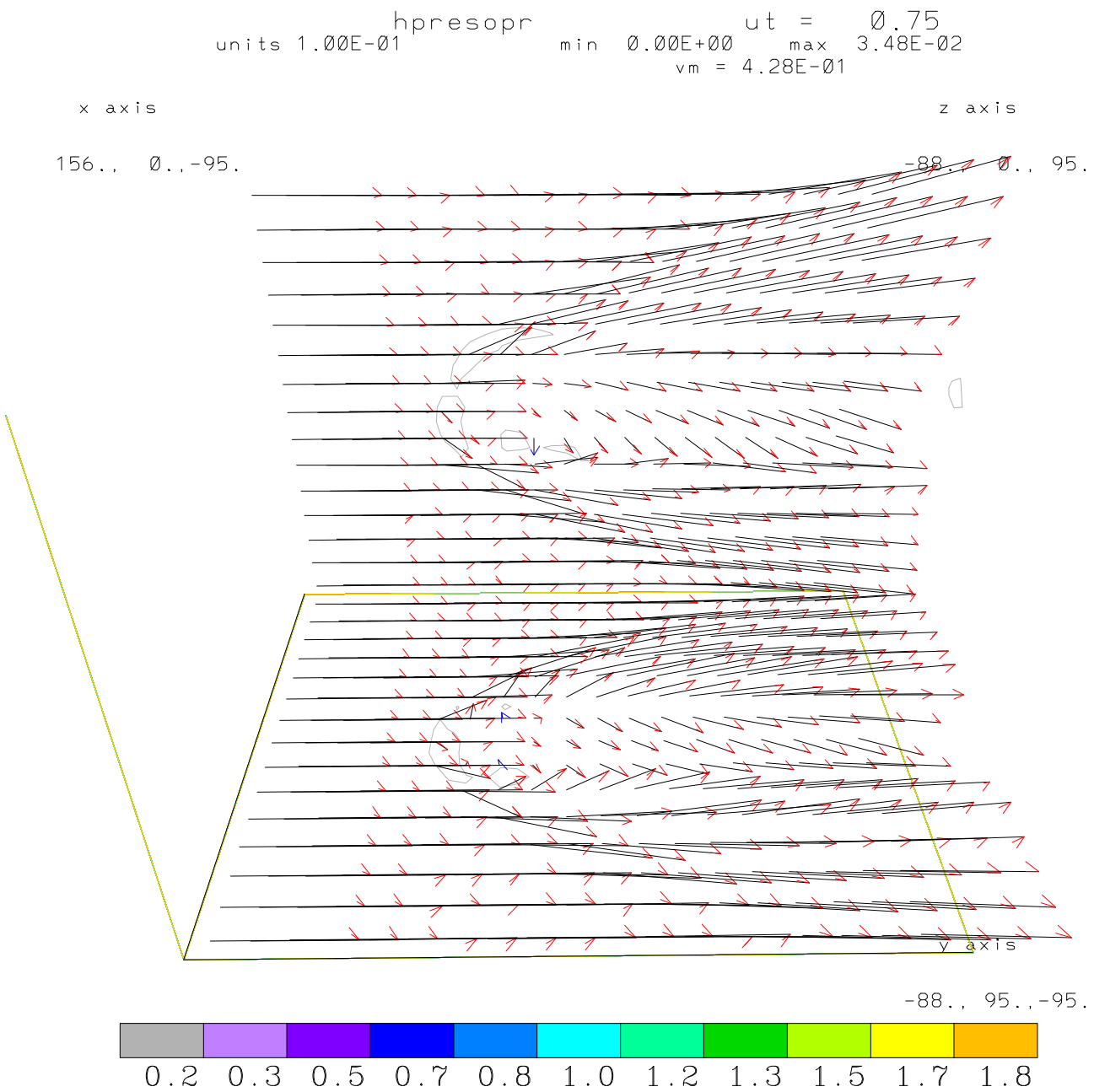
x axis z axis

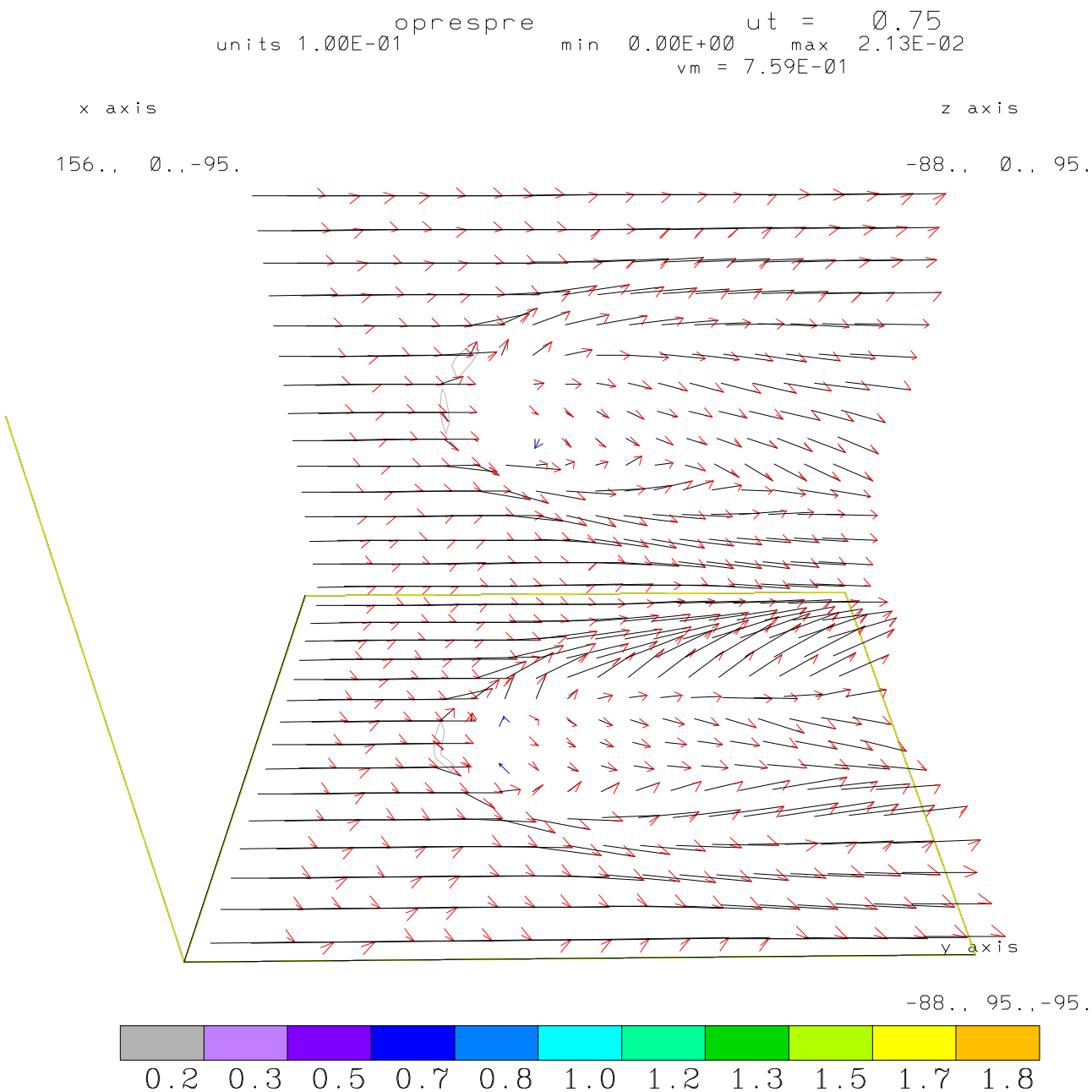
376., 0.,**** ****, 0.,191.

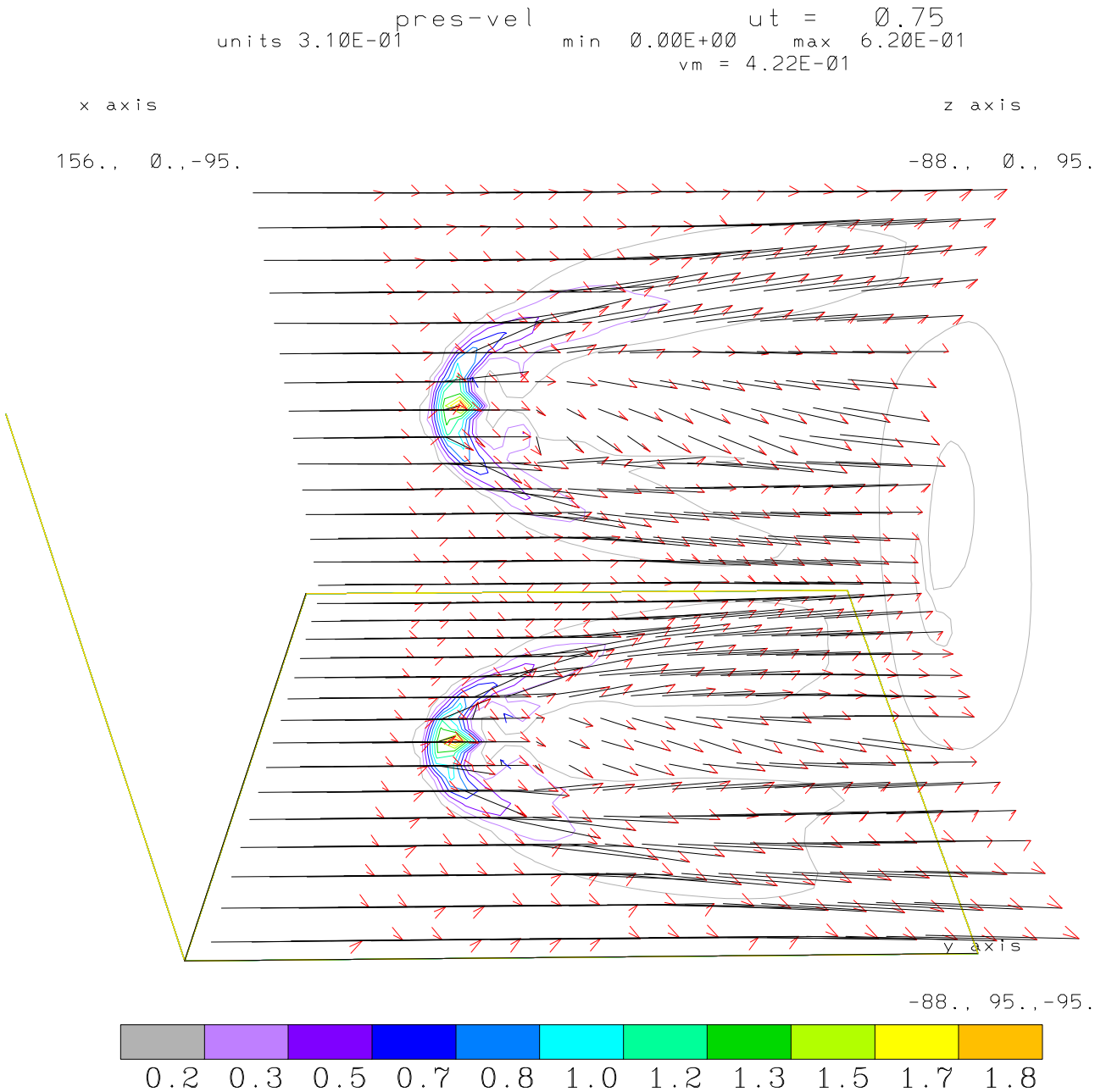


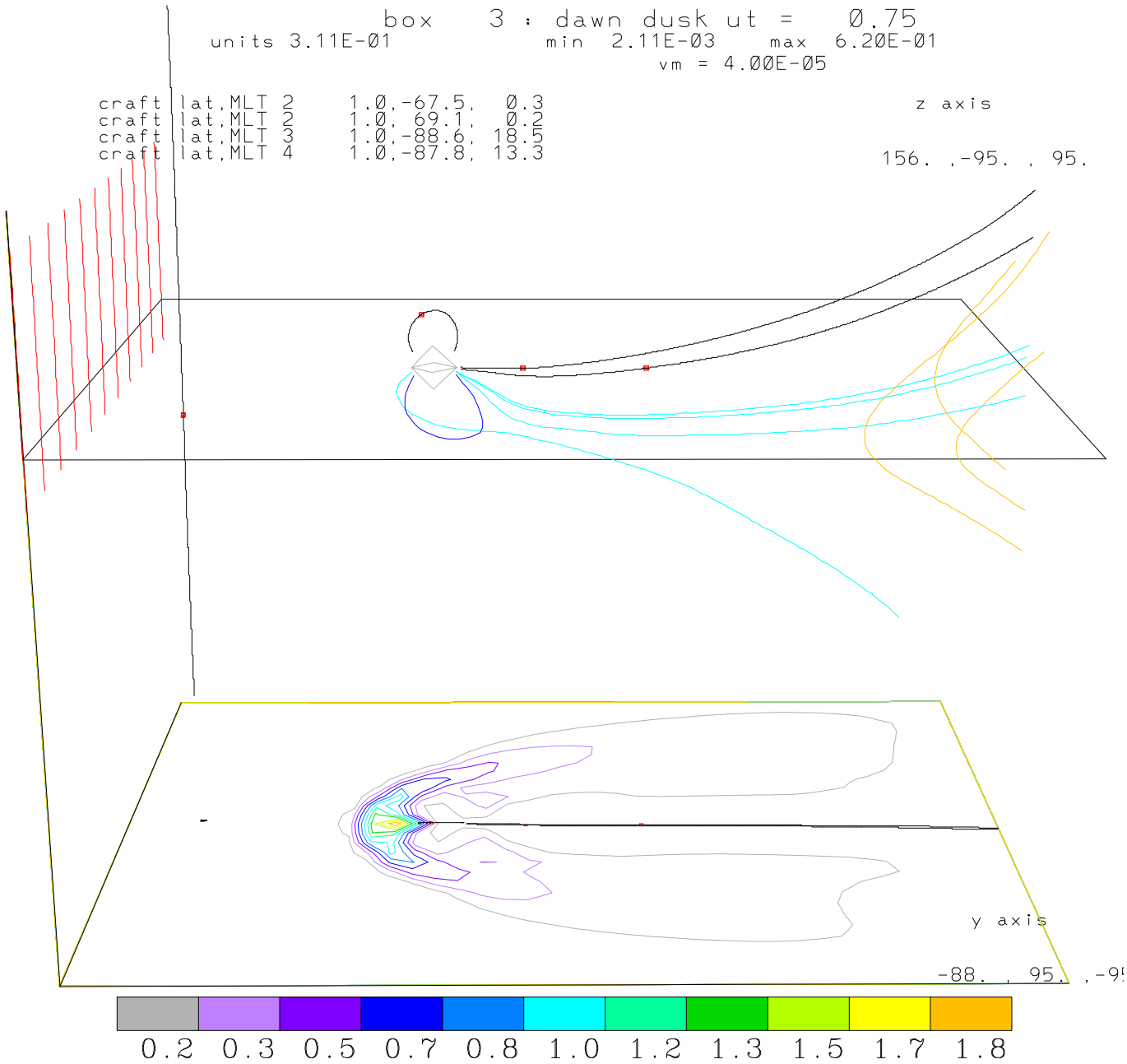

tden vbi
ut = 0.75
units
min 0.00E+00
max 8.23E+00
vm = 4.53E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 0.75
units 1.00E-01
min 0.00E+00
max 5.49E-01
vm = 4.22E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 0.75
units 1.00E-01
min 0.00E+00
max 3.48E-02
vm = 4.28E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 0.75
units 1.00E-01
min 0.00E+00
max 2.13E-02
vm = 7.59E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.75
units 3.10E-01
min 0.00E+00
max 6.20E-01
vm = 4.22E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8


box 3 : dawn dusk ut = 0.75
units 3.11E-01
min 2.11E-03 max 6.20E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.5, 0.3
craft lat,MLT 2 1.0, 69.1, 0.2
craft lat,MLT 3 1.0,-88.6, 18.5
craft lat,MLT 4 1.0,-87.8, 13.3
z axis
156. ,-95. , 95.
y axis
-88. , 95. ,-9
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

epresq t ut = 0.75

units 2.00E-01 min 0.00E+00 max 2.87E-01

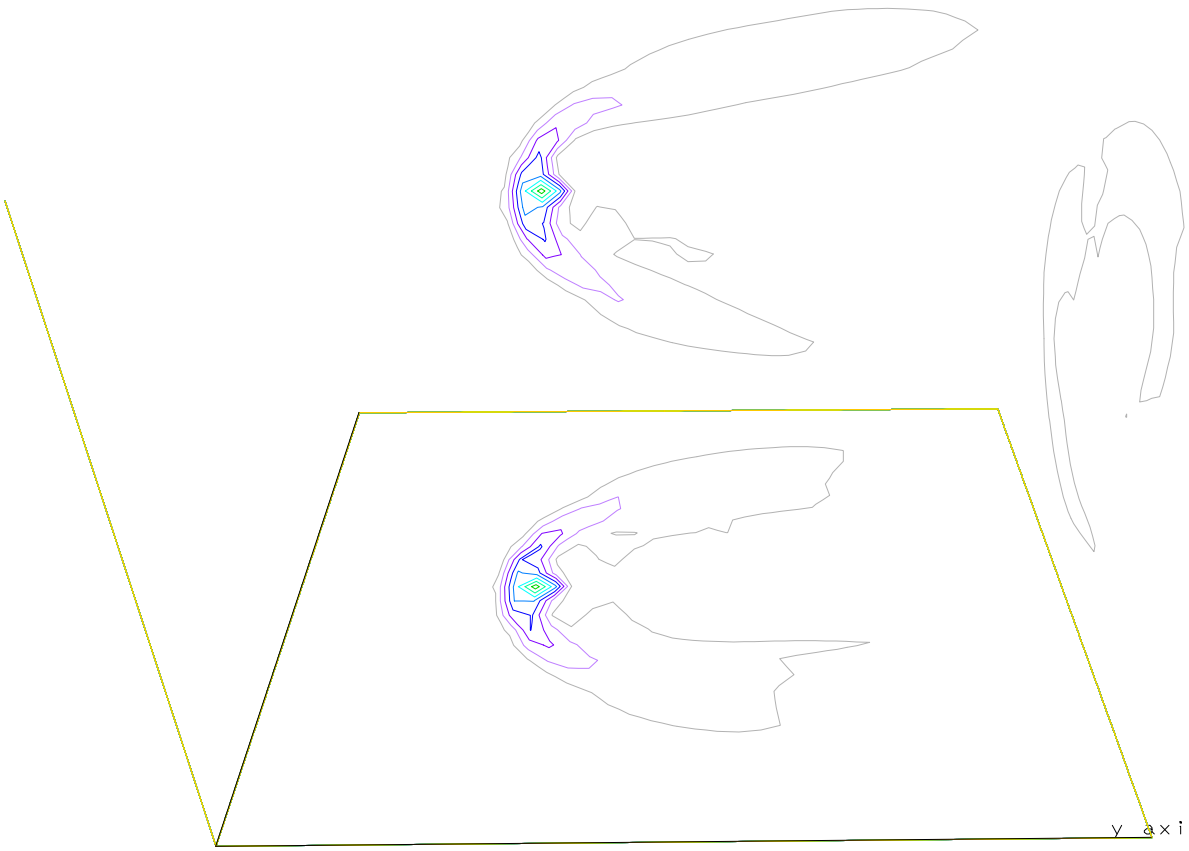
vm = 4.00E-05

x axis

156., 0.,-95.

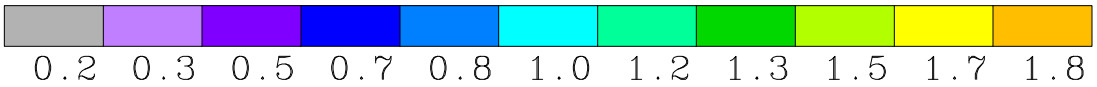
z axis

-88., 0., 95.



y axis

-88., 95.,-95.



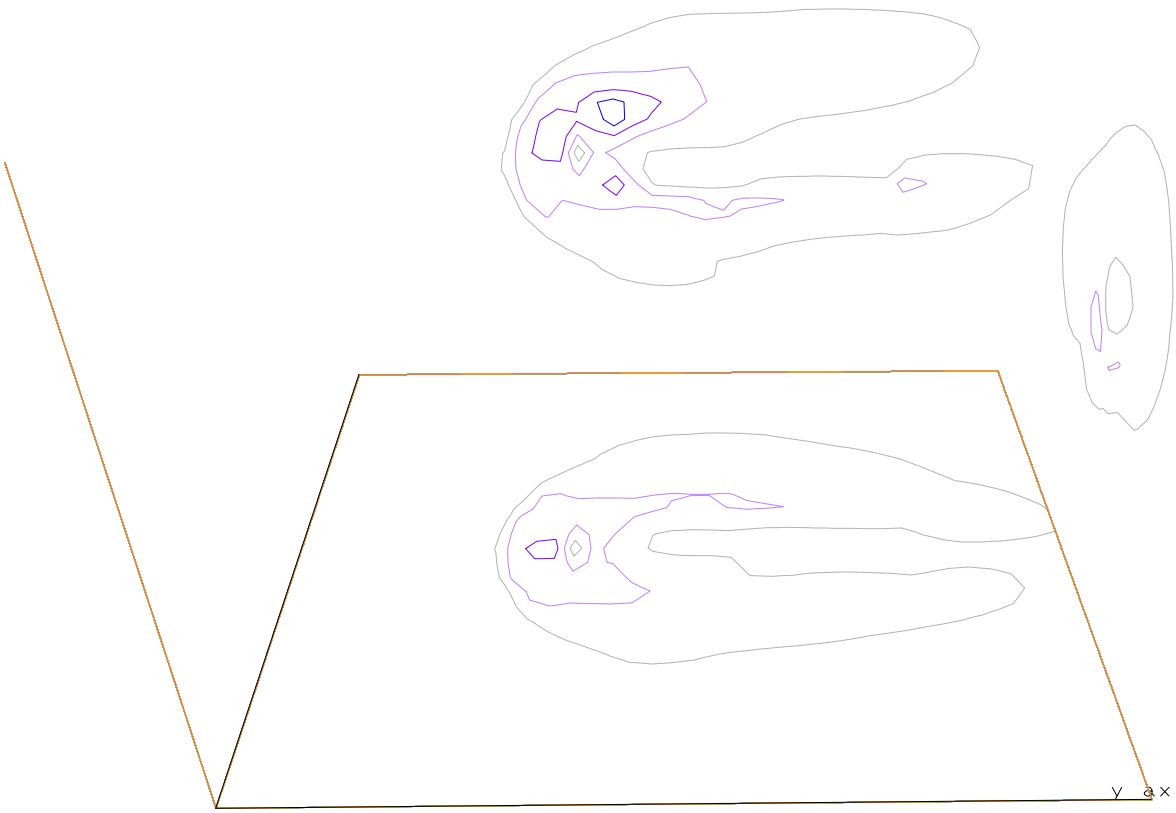
q temph ut = 0.75

units 2.50E-01 min 0.00E+00 max 1.81E-01

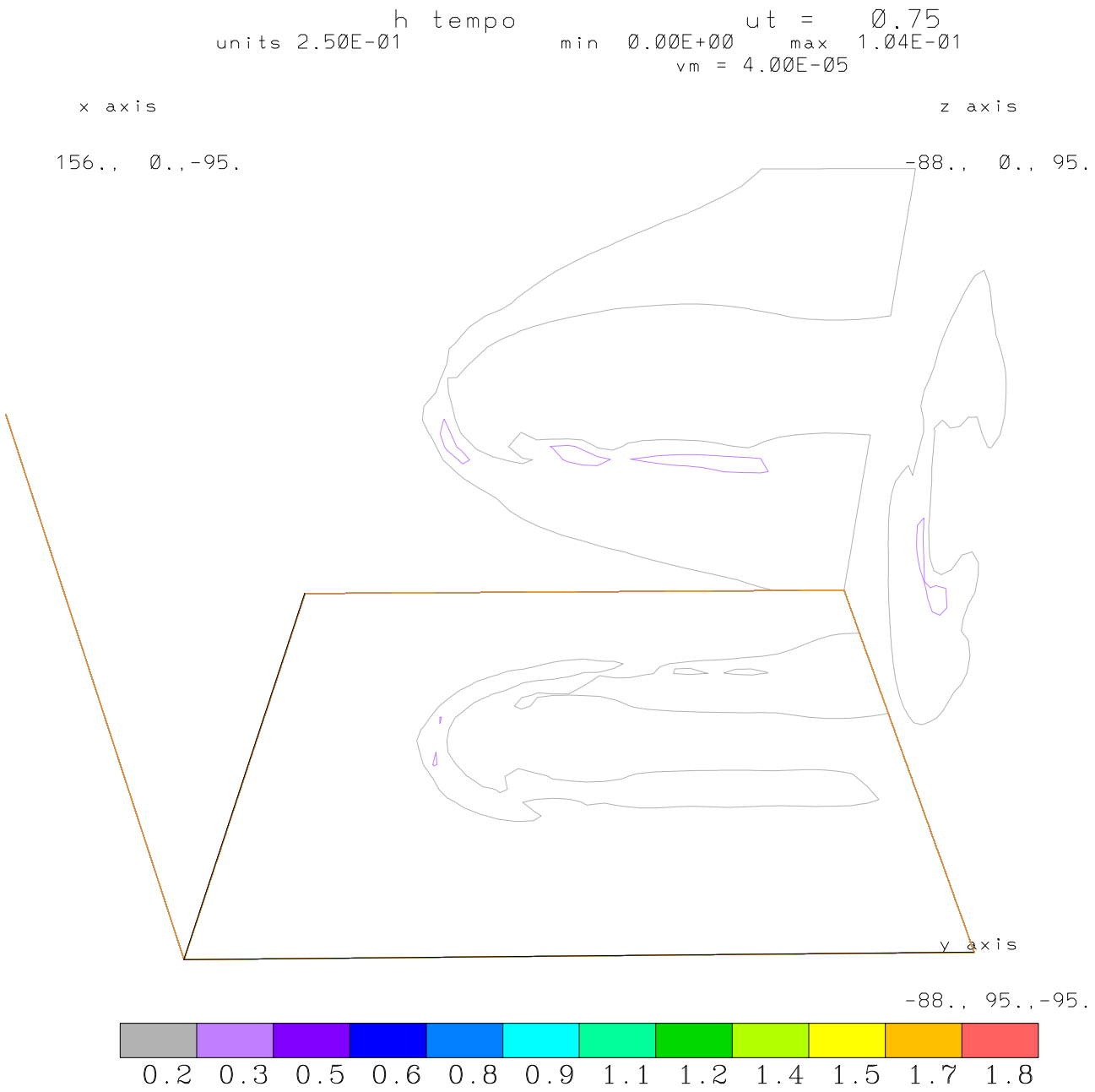
vm = 4.00E-05

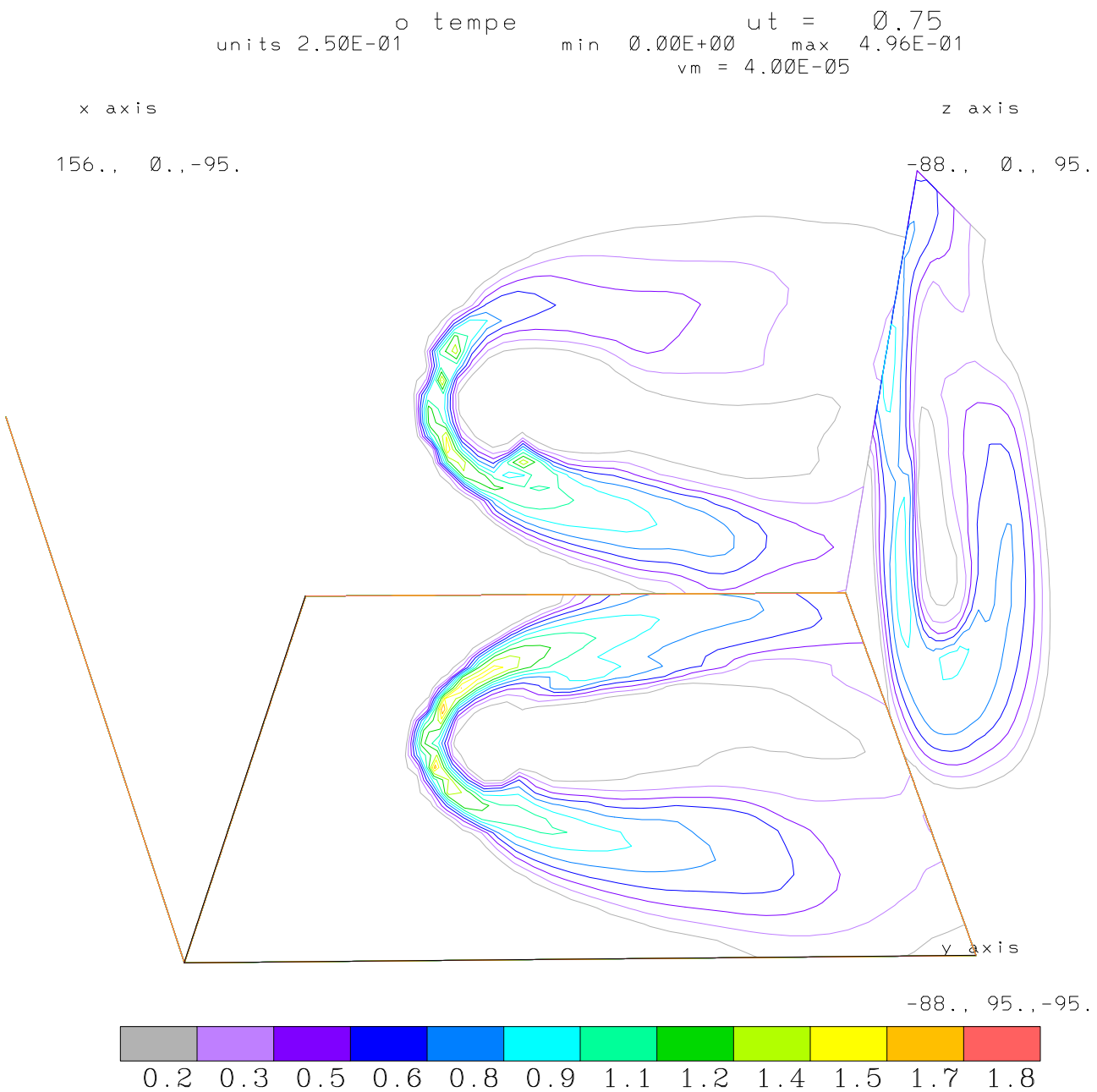
x axis z axis

156., 0.,-95. -88., 0., 95.



-88., 95.,-95.


h tempo
ut = 0.75
units 2.50E-01
min 0.00E+00
max 1.04E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 0.75
units 2.50E-01
min 0.00E+00
max 4.96E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

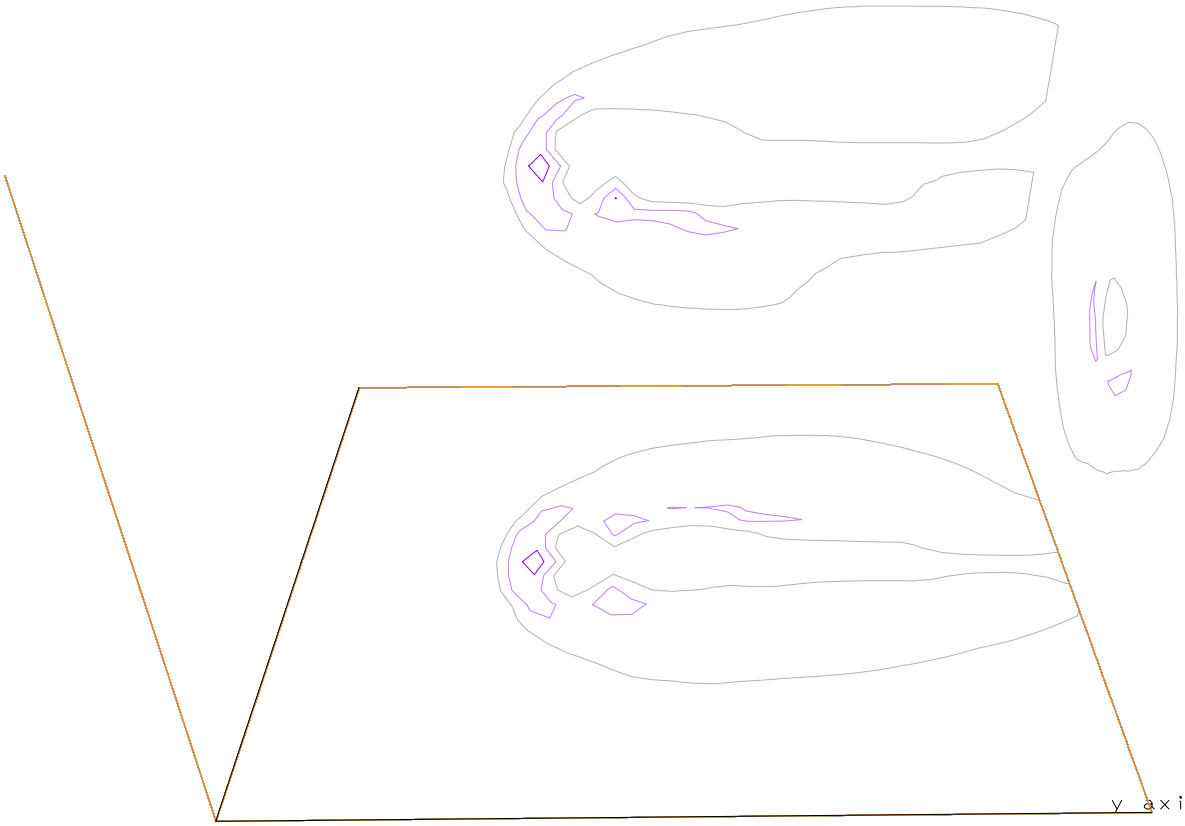
e tempq ut = 0.75

units 1.12E-01 min 0.00E+00 max 6.31E-02

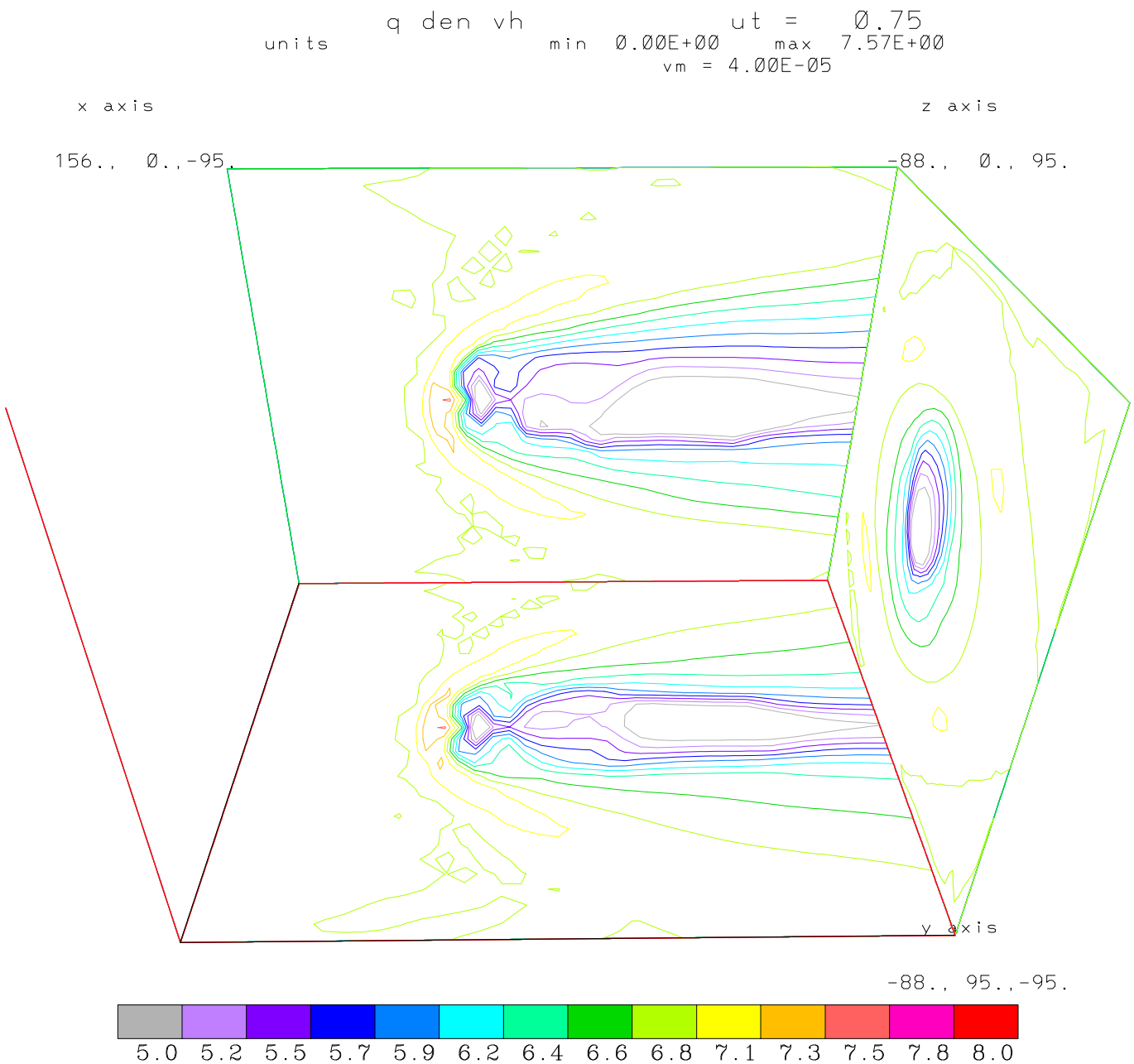
vm = 4.00E-05

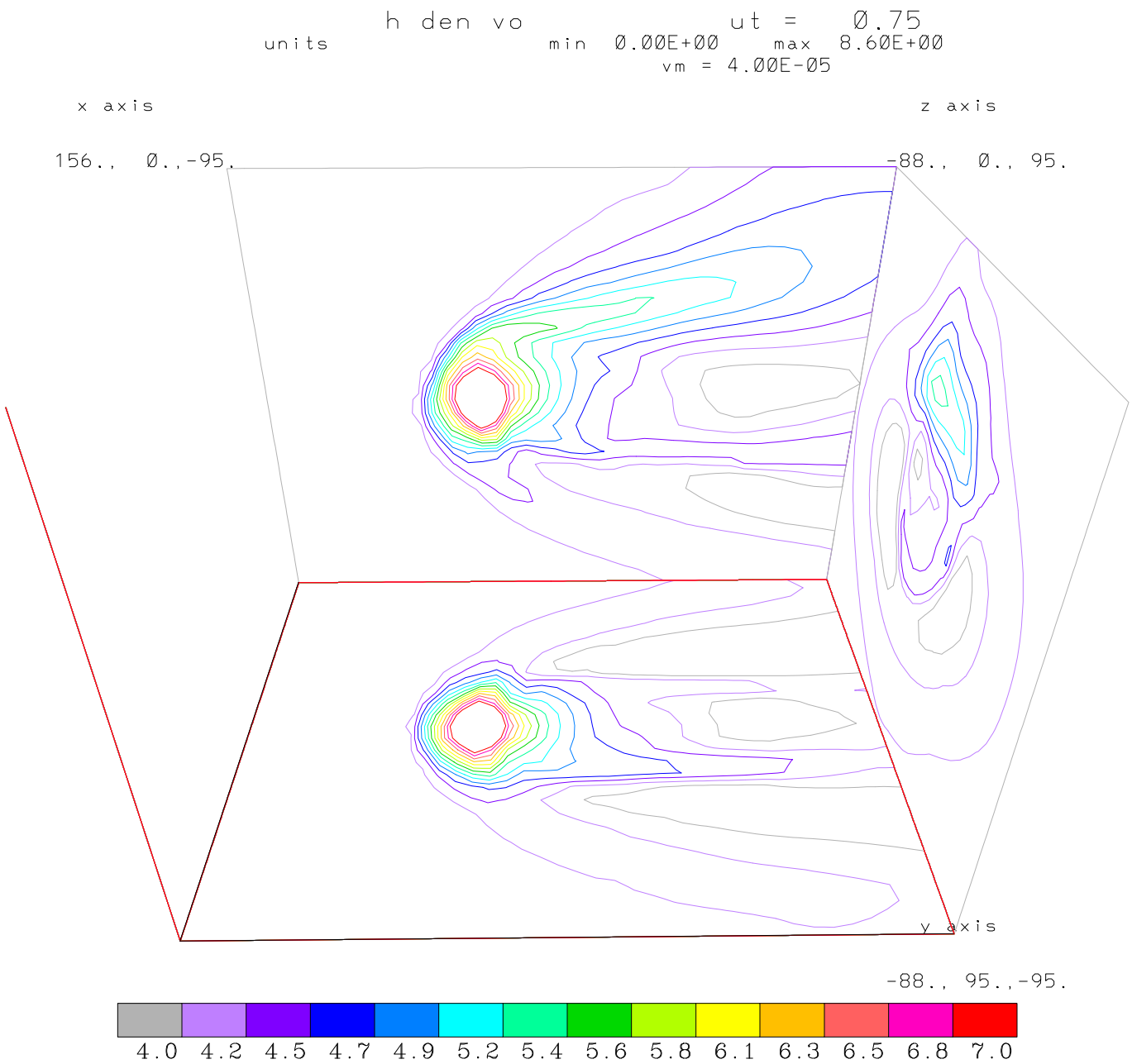
x axis z axis

156., 0.,-95. -88., 0., 95.



-88., 95.,-95.


q den vh
ut = 0.75
units
min 0.00E+00
max 7.57E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 0.75
units min 0.00E+00 max 8.60E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

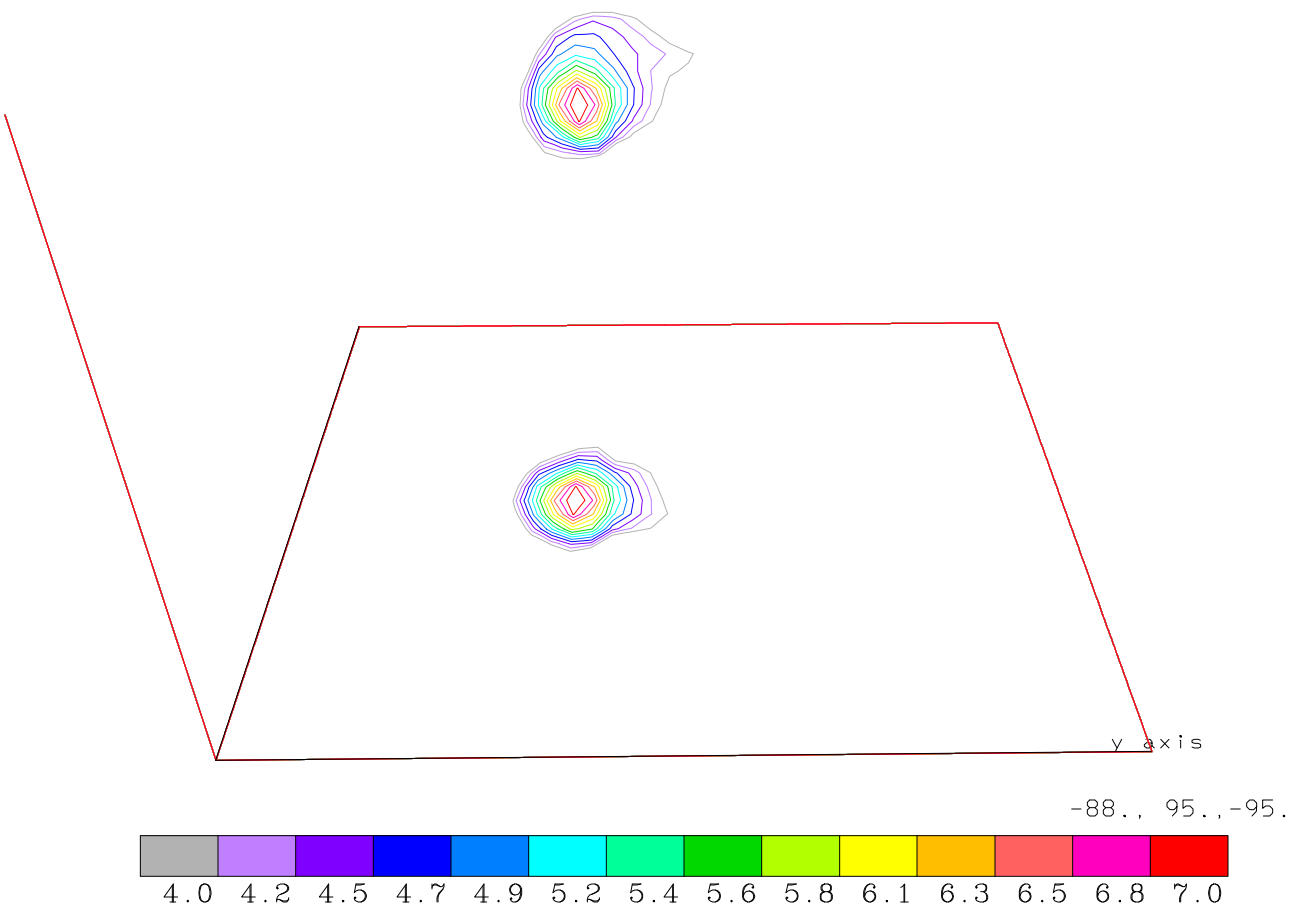
o den vt ut = 0.75

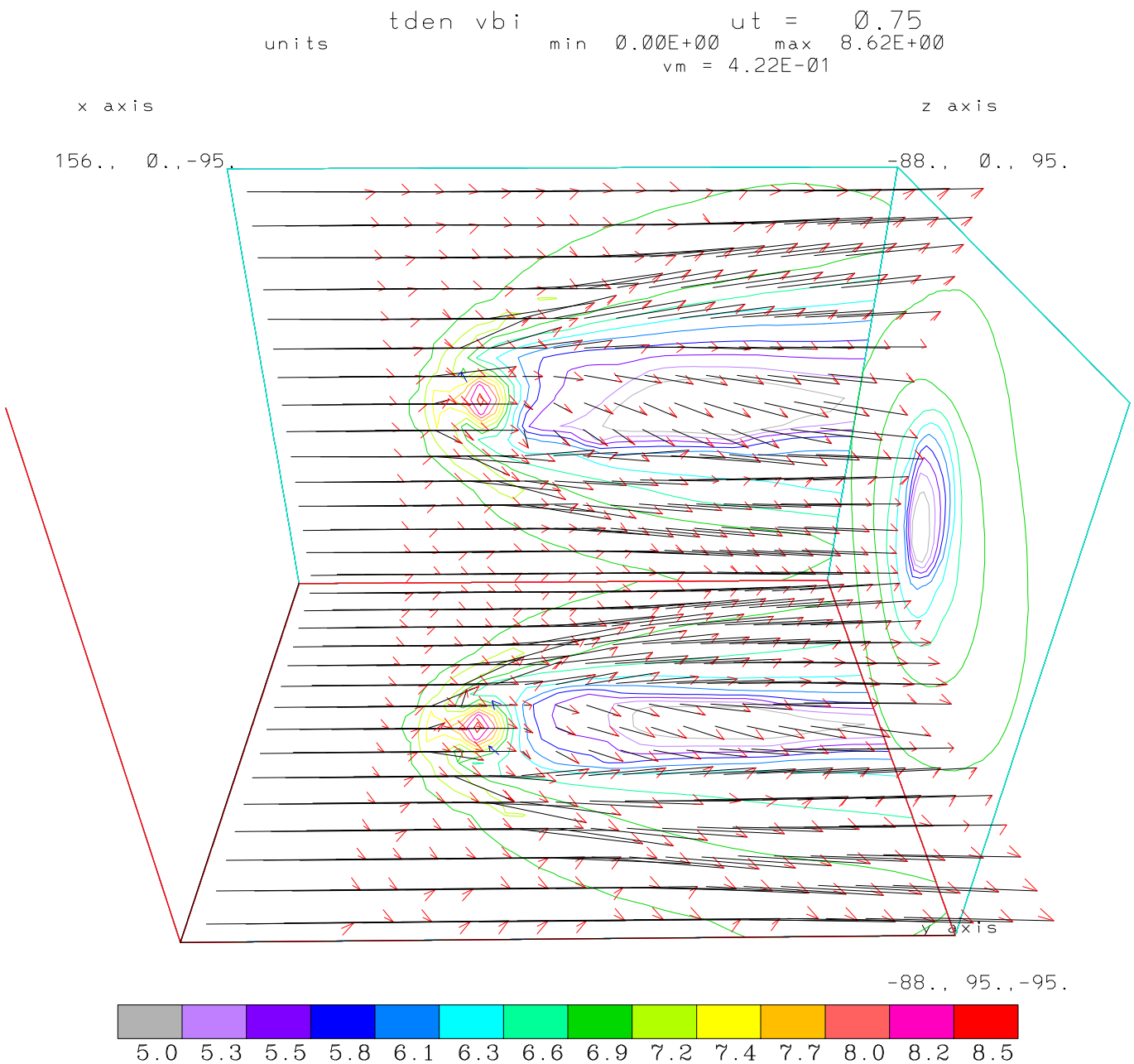
units min 0.00E+00 max 7.30E+00

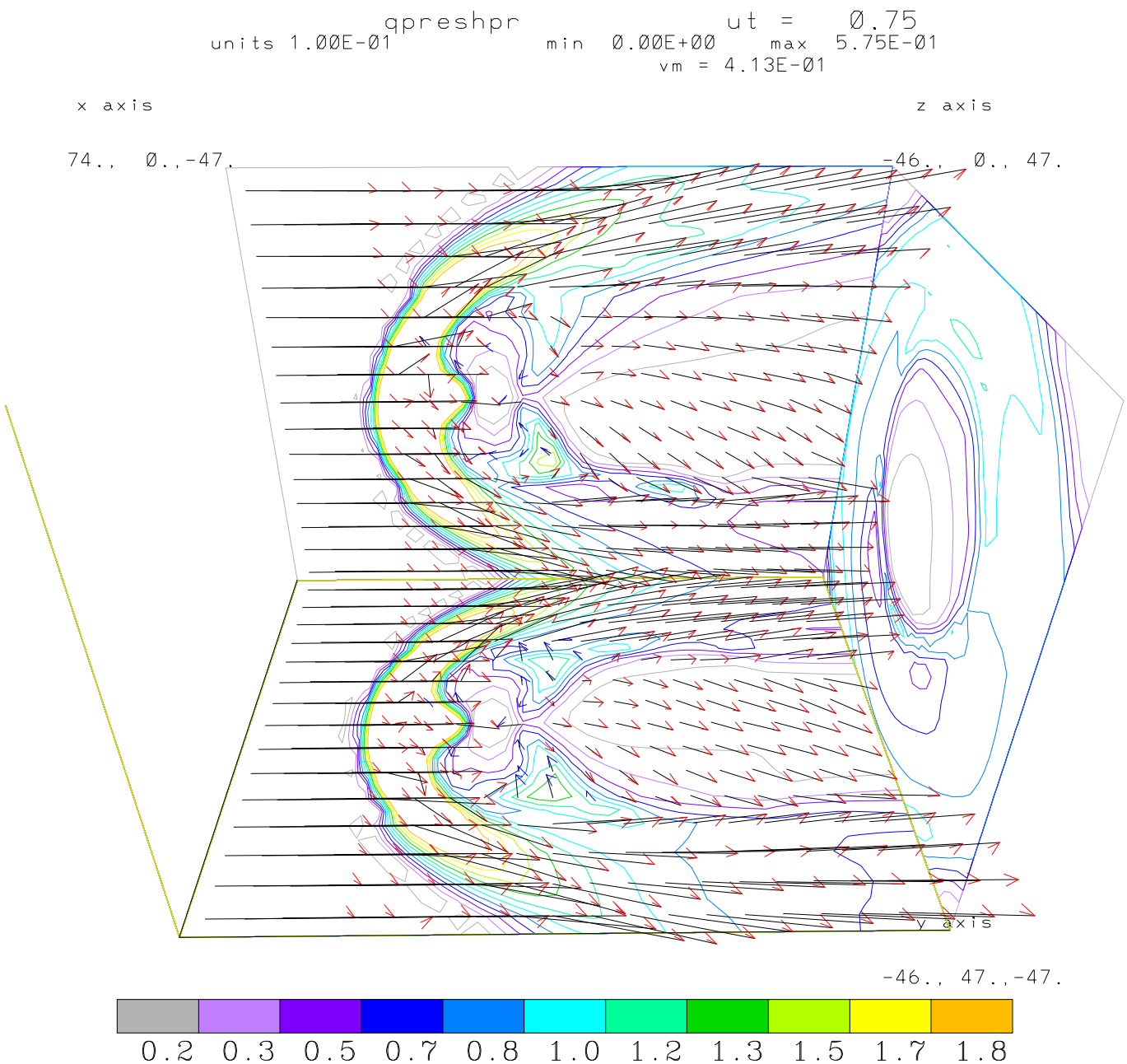
vm = 4.00E-05

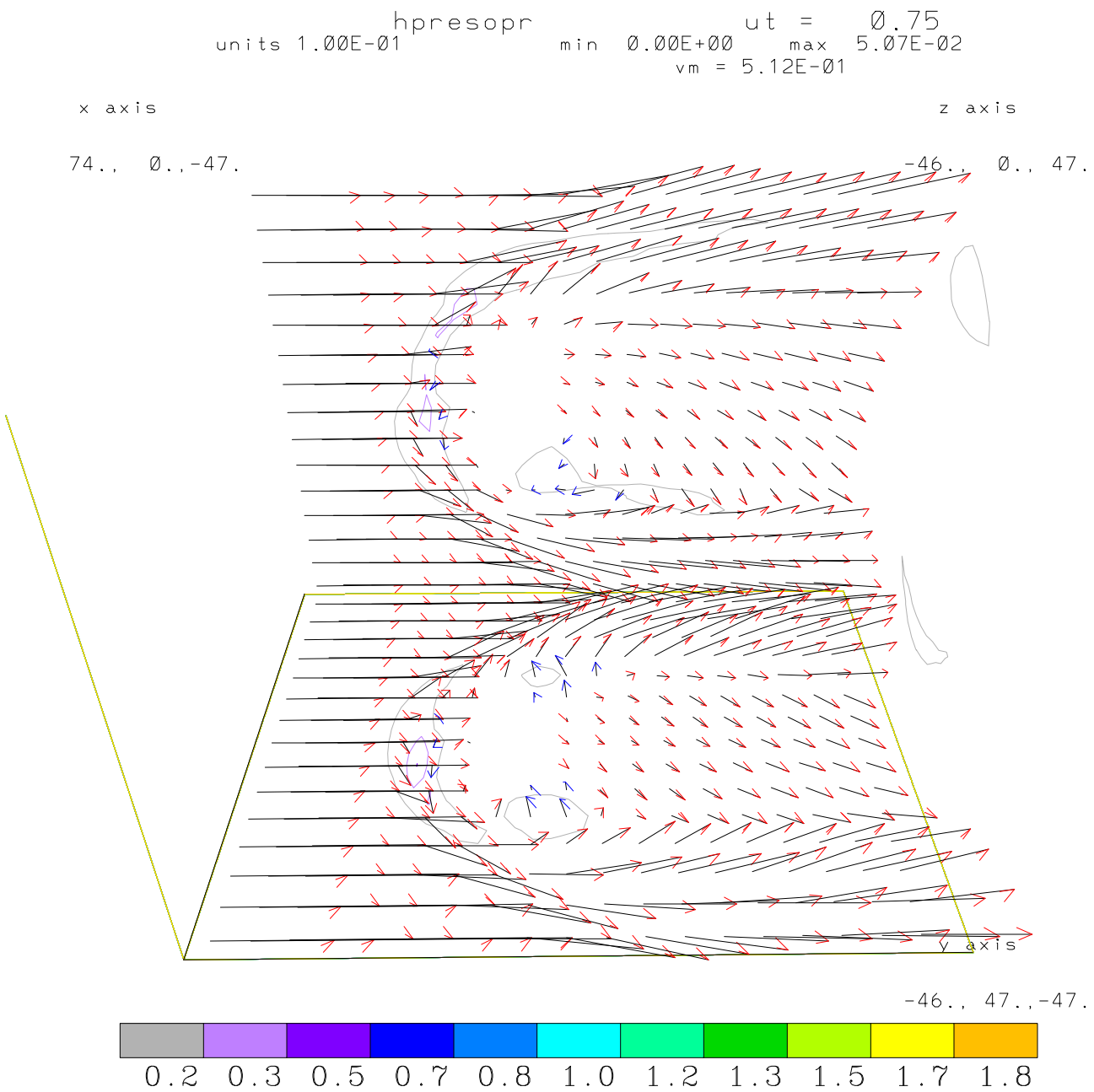
x axis z axis

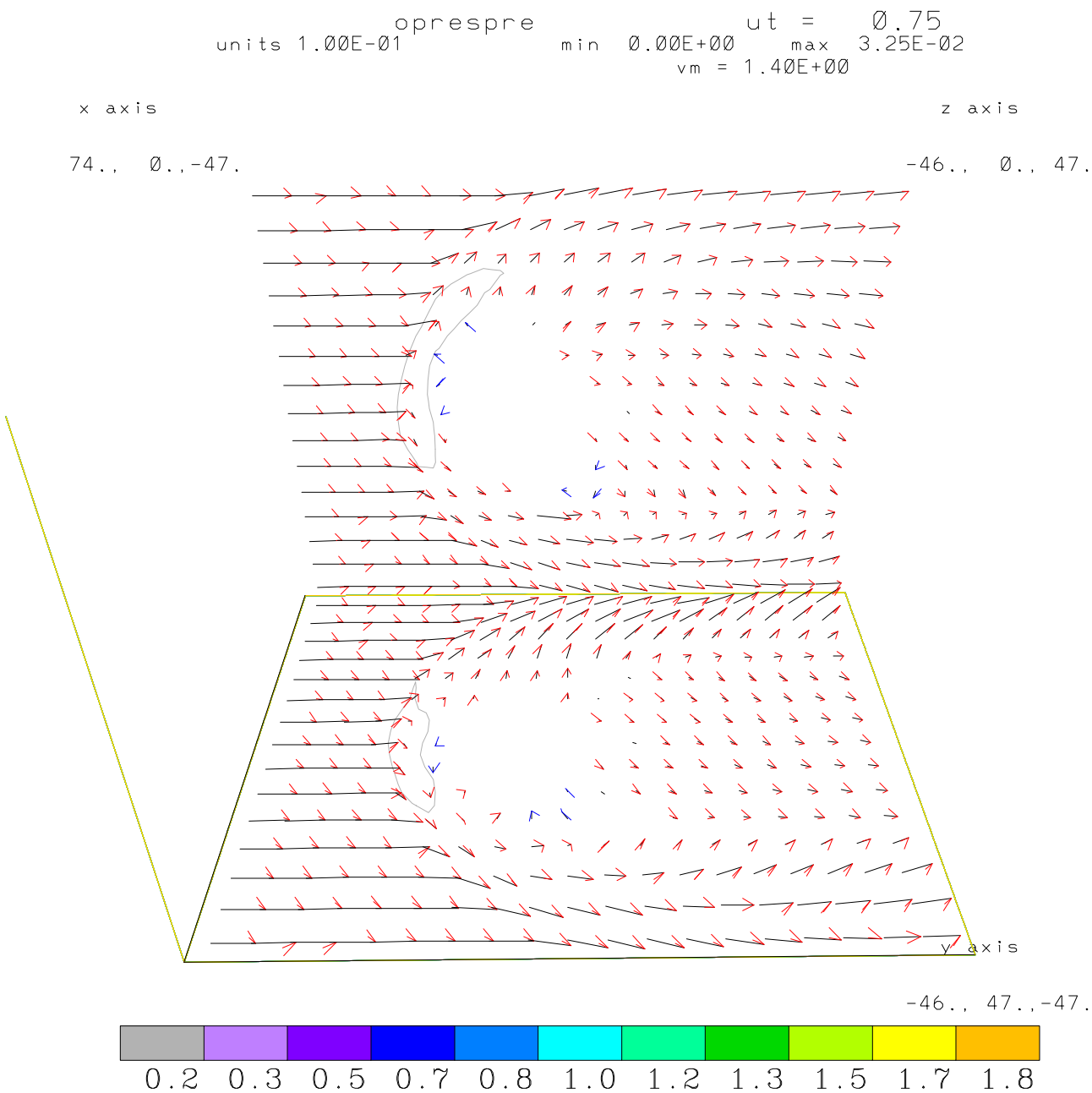
156., 0.,-95. -88., 0., 95.

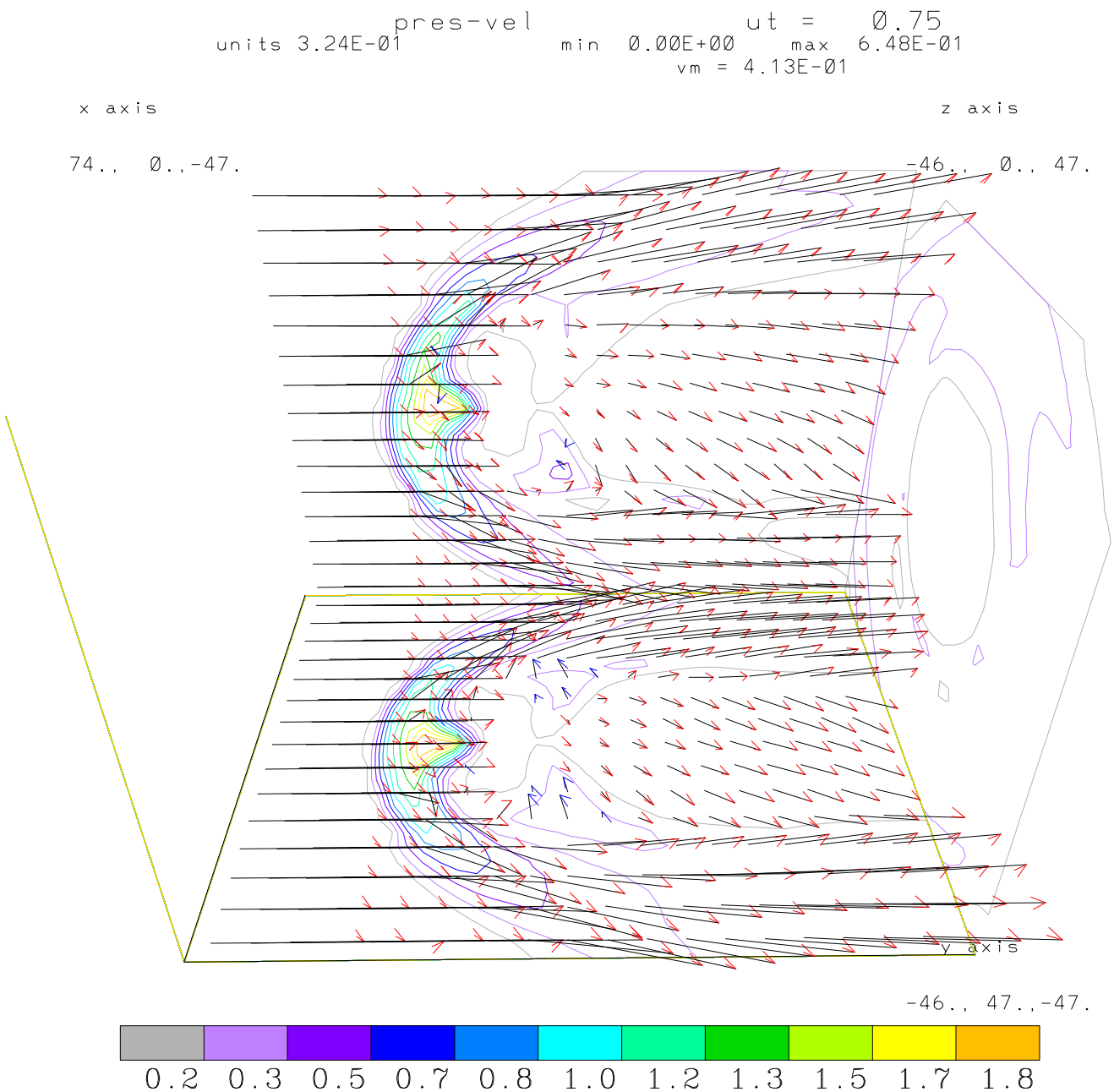


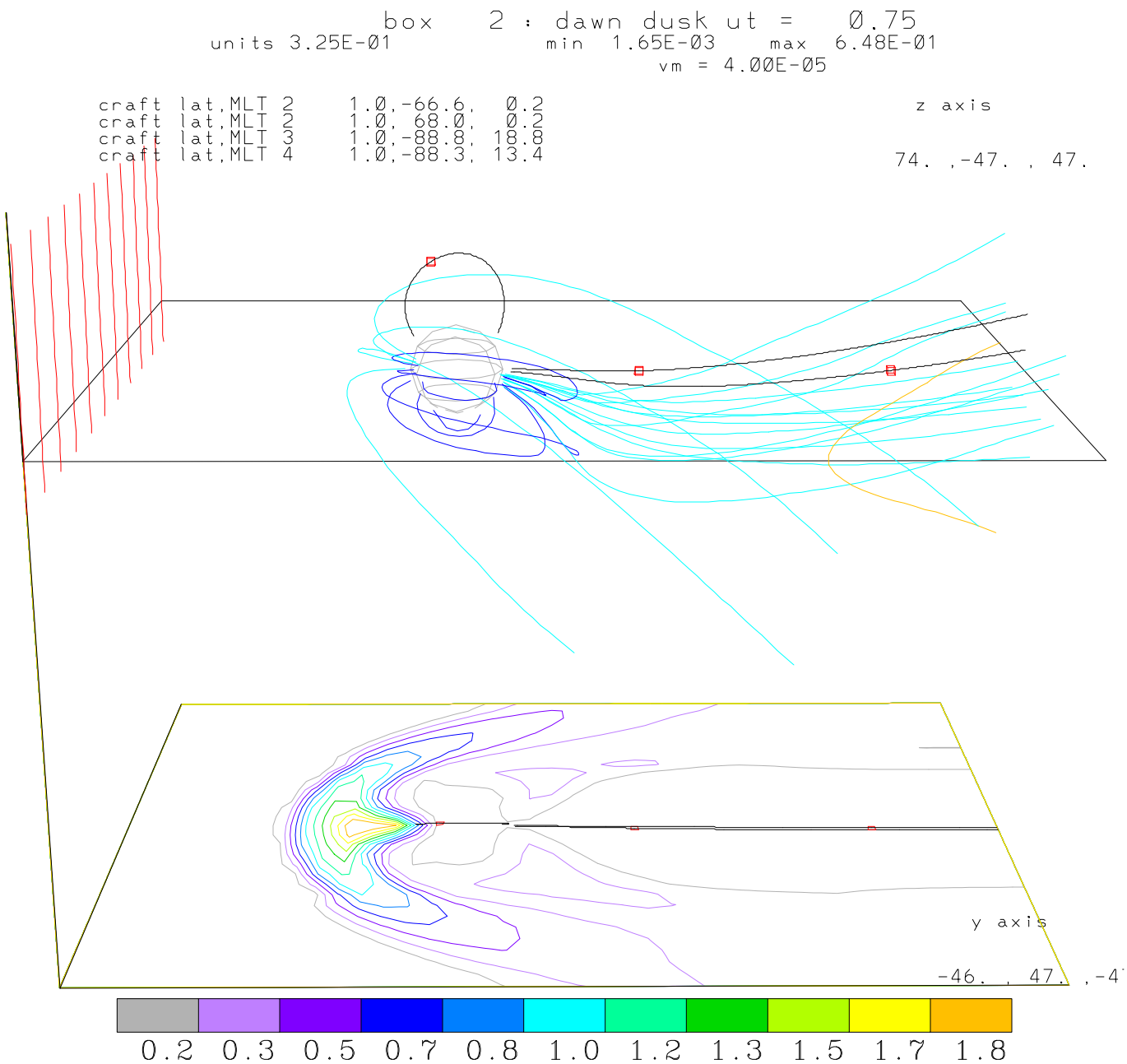

tden vbi
ut = 0.75
units
min 0.00E+00
max 8.62E+00
vm = 4.22E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5

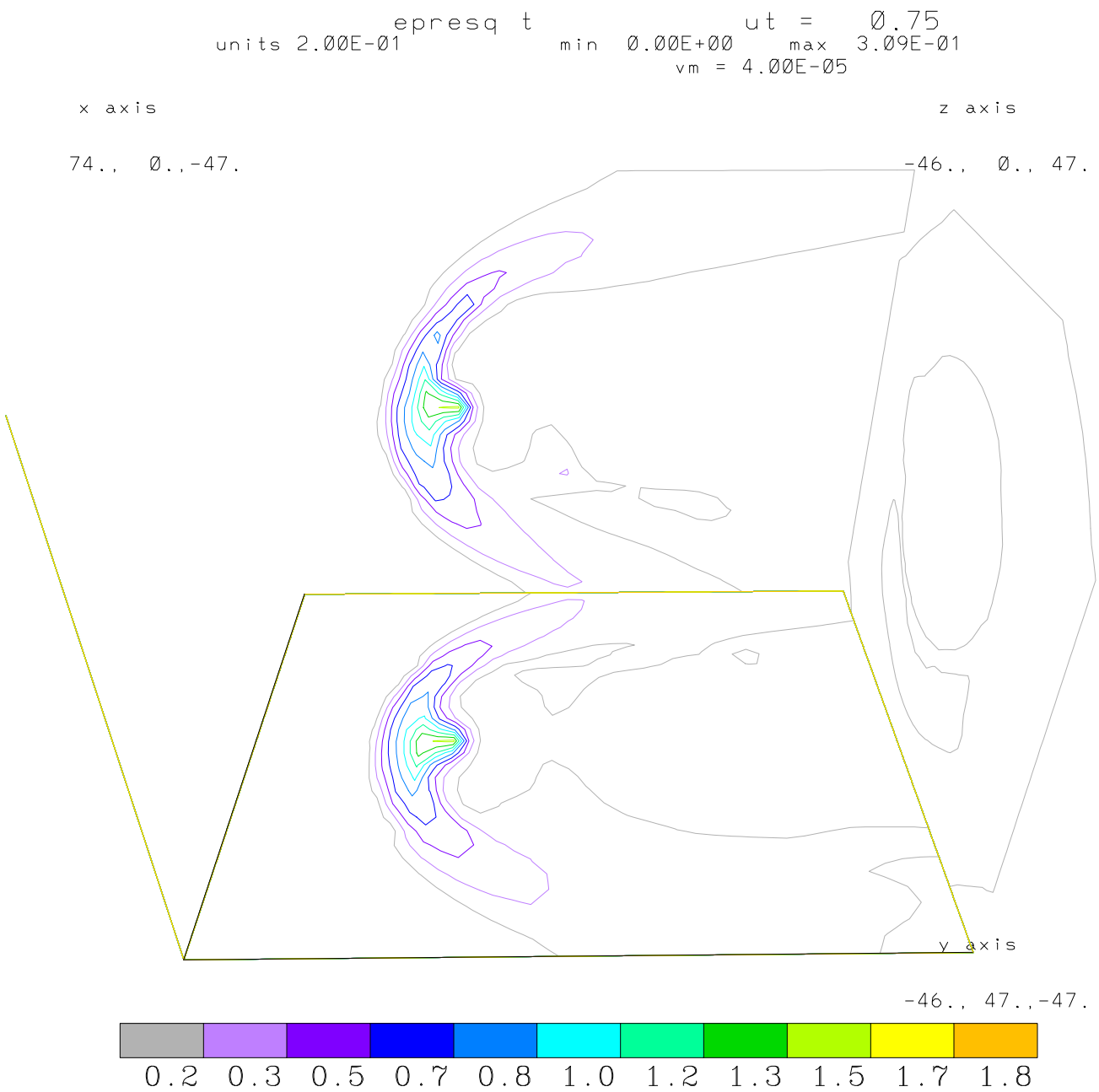

qpreshpr
ut = 0.75
units 1.00E-01
min 0.00E+00
max 5.75E-01
vm = 4.13E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 0.75
units 1.00E-01
min 0.00E+00
max 5.07E-02
vm = 5.12E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 0.75
units 1.00E-01
min 0.00E+00
max 3.25E-02
vm = 1.40E+00
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 0.75
units 3.24E-01
min 0.00E+00
max 6.48E-01
vm = 4.13E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

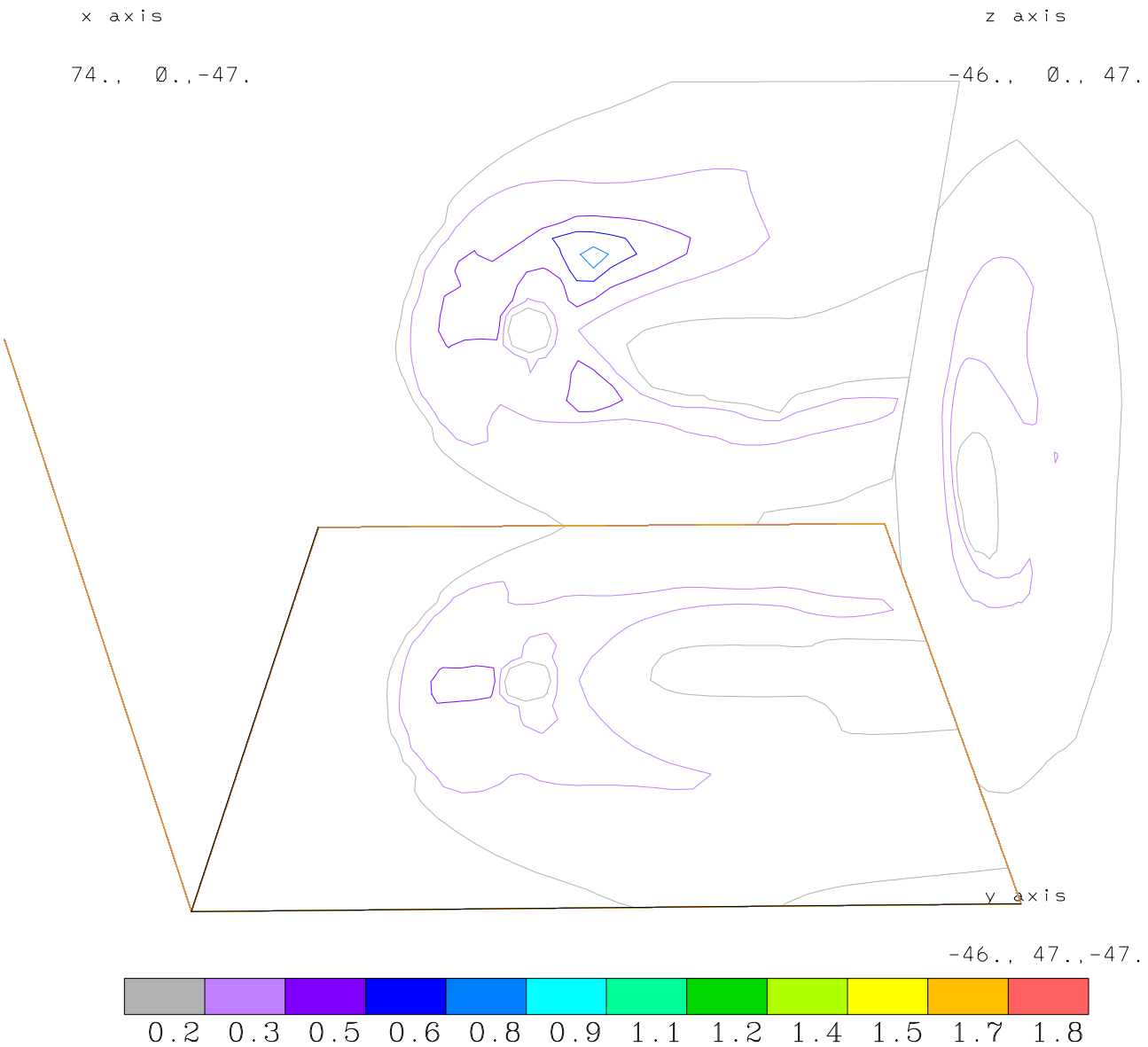

box 2 : dawn dusk ut = 0.75
units 3.25E-01
min 1.65E-03 max 6.48E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-66.6, 0.2
craft lat,MLT 2 1.0, 68.0, 0.2
craft lat,MLT 3 1.0,-88.8, 18.8
craft lat,MLT 4 1.0,-88.3, 13.4
z axis
74. ,-47. , 47.
y axis
-46. , 47. ,-4
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

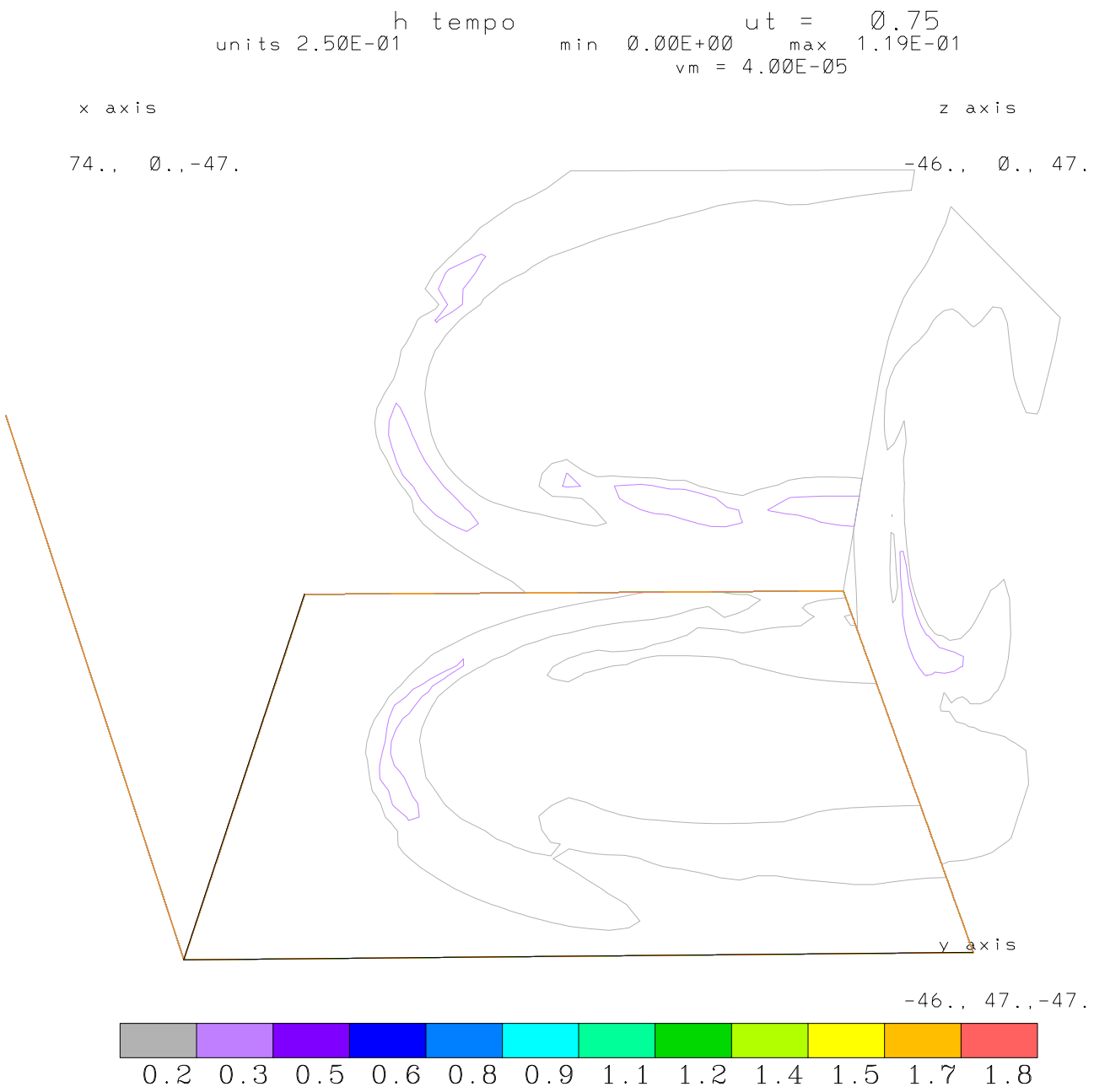

epresq t
ut = 0.75
units 2.00E-01
min 0.00E+00
max 3.09E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8

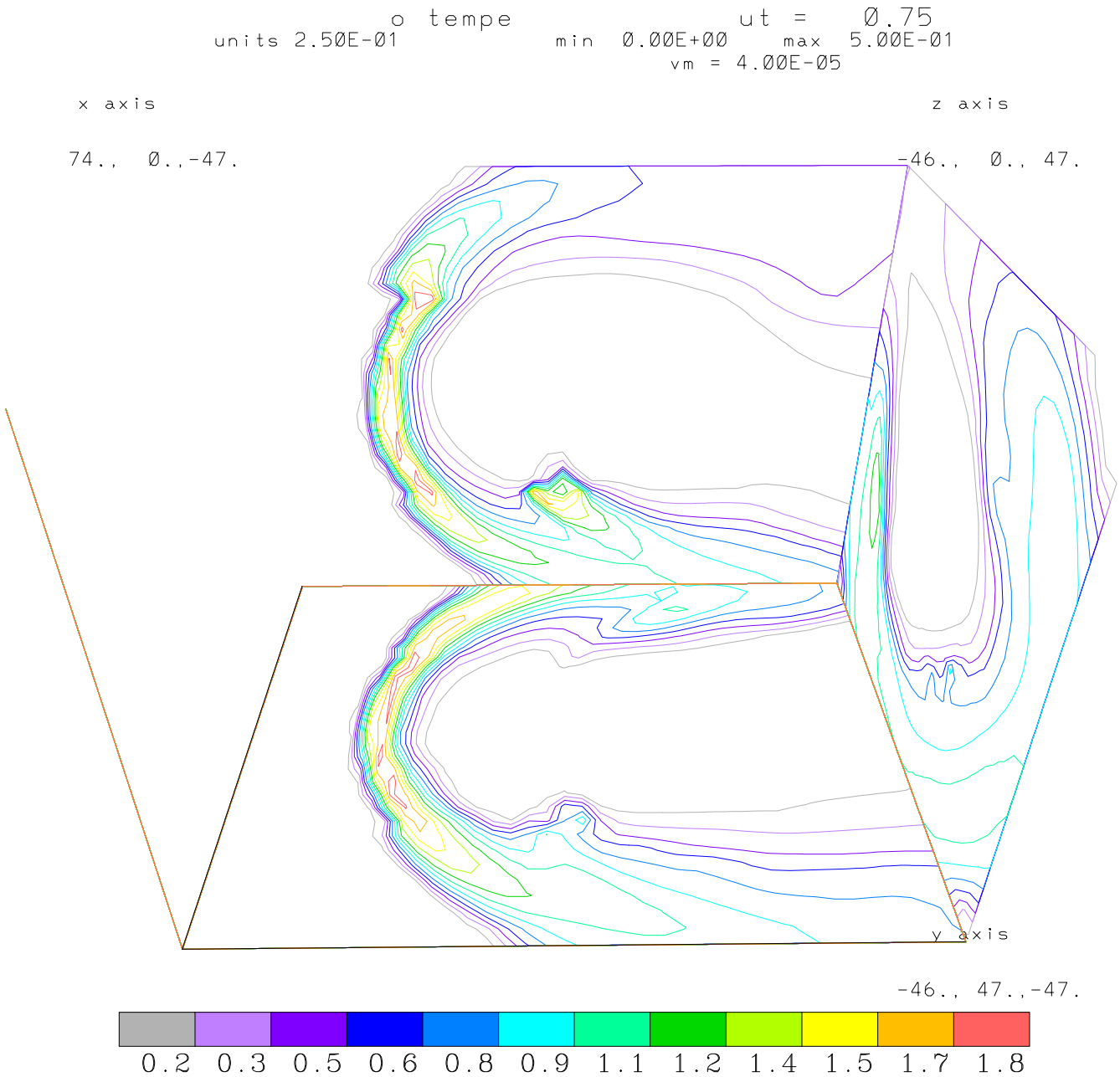
q temph ut = 0.75

units 2.50E-01 min 0.00E+00 max 2.32E-01

vm = 4.00E-05




h tempo
ut = 0.75
units 2.50E-01
min 0.00E+00
max 1.19E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8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z axis
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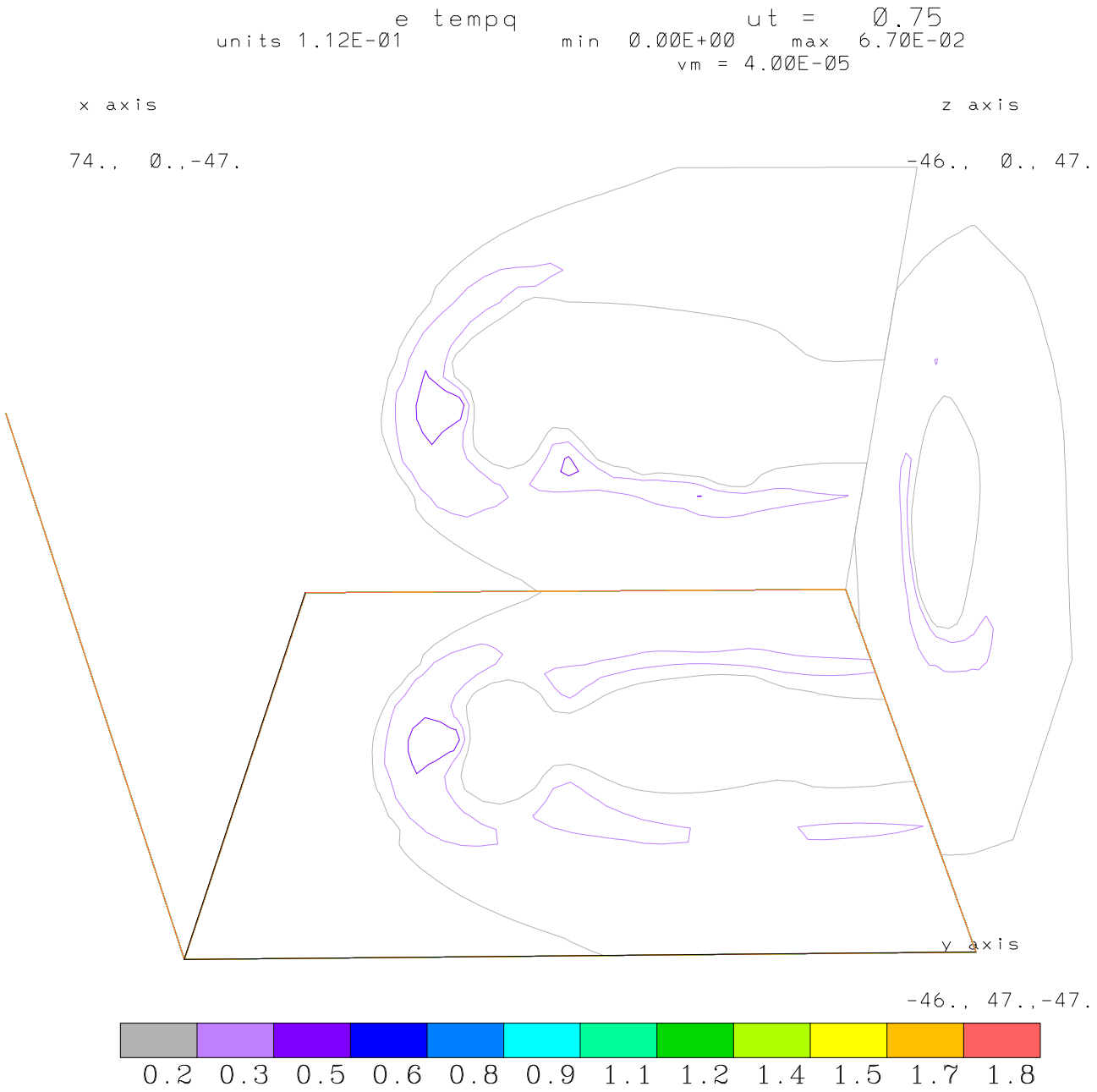
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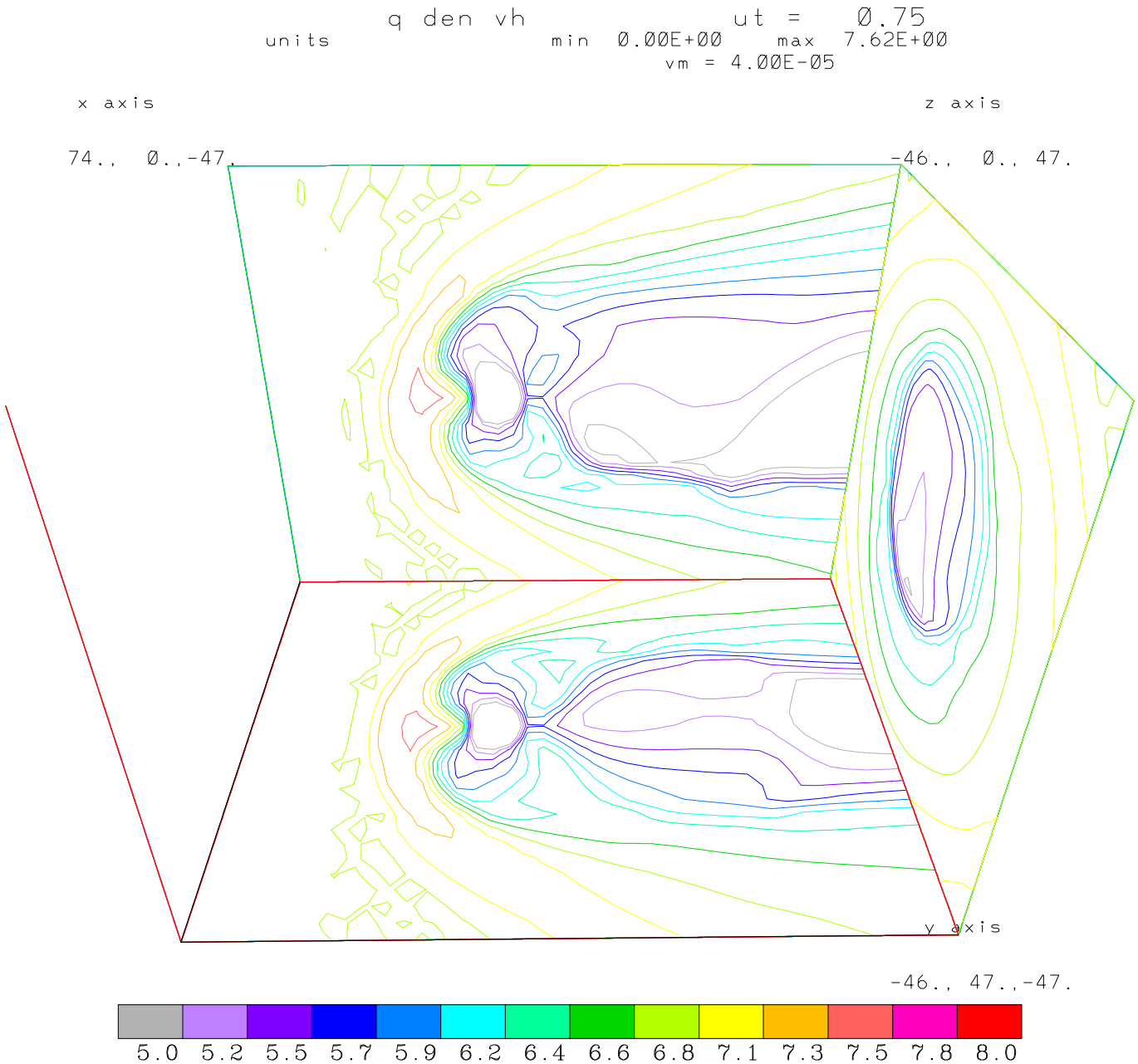
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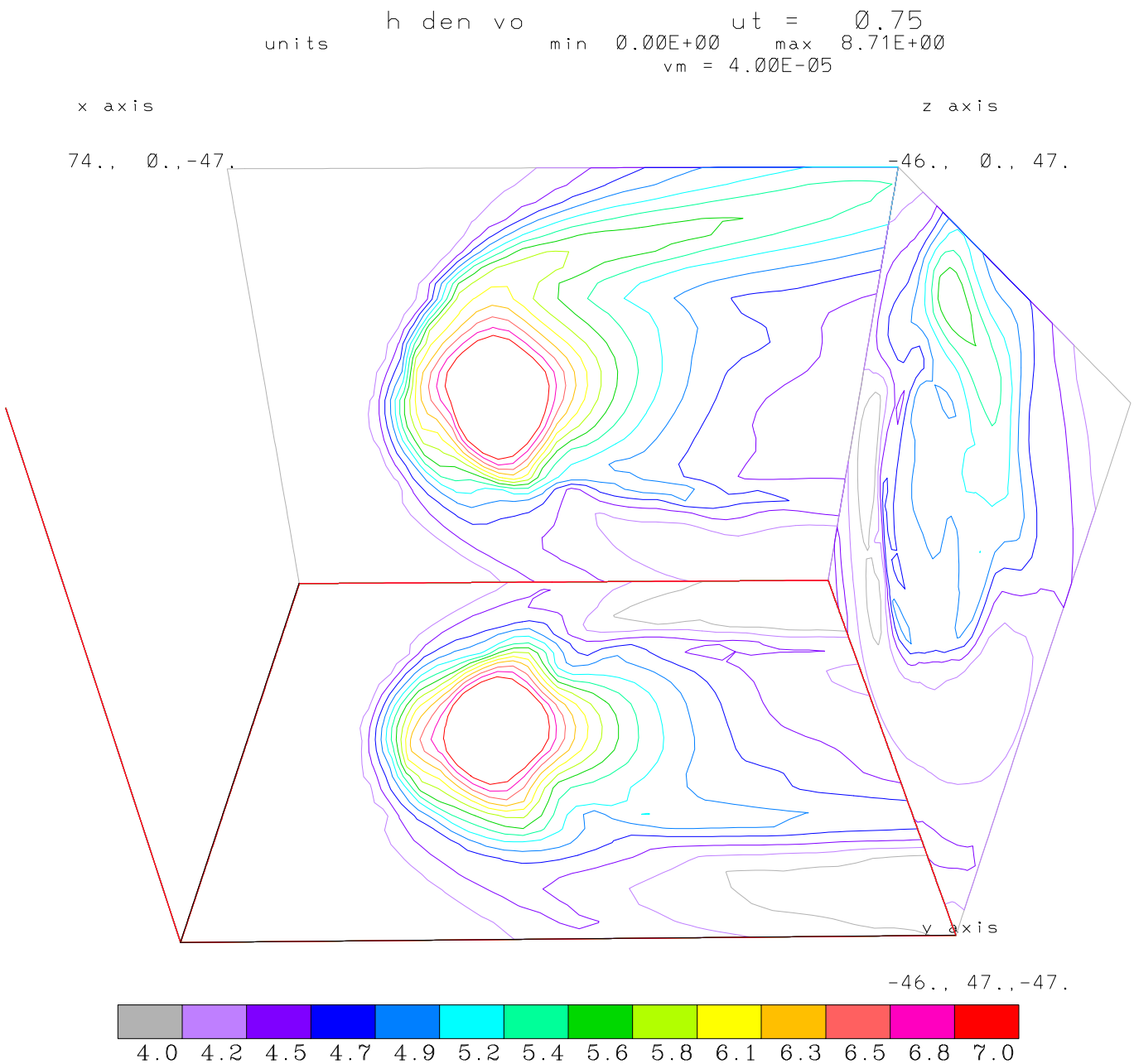
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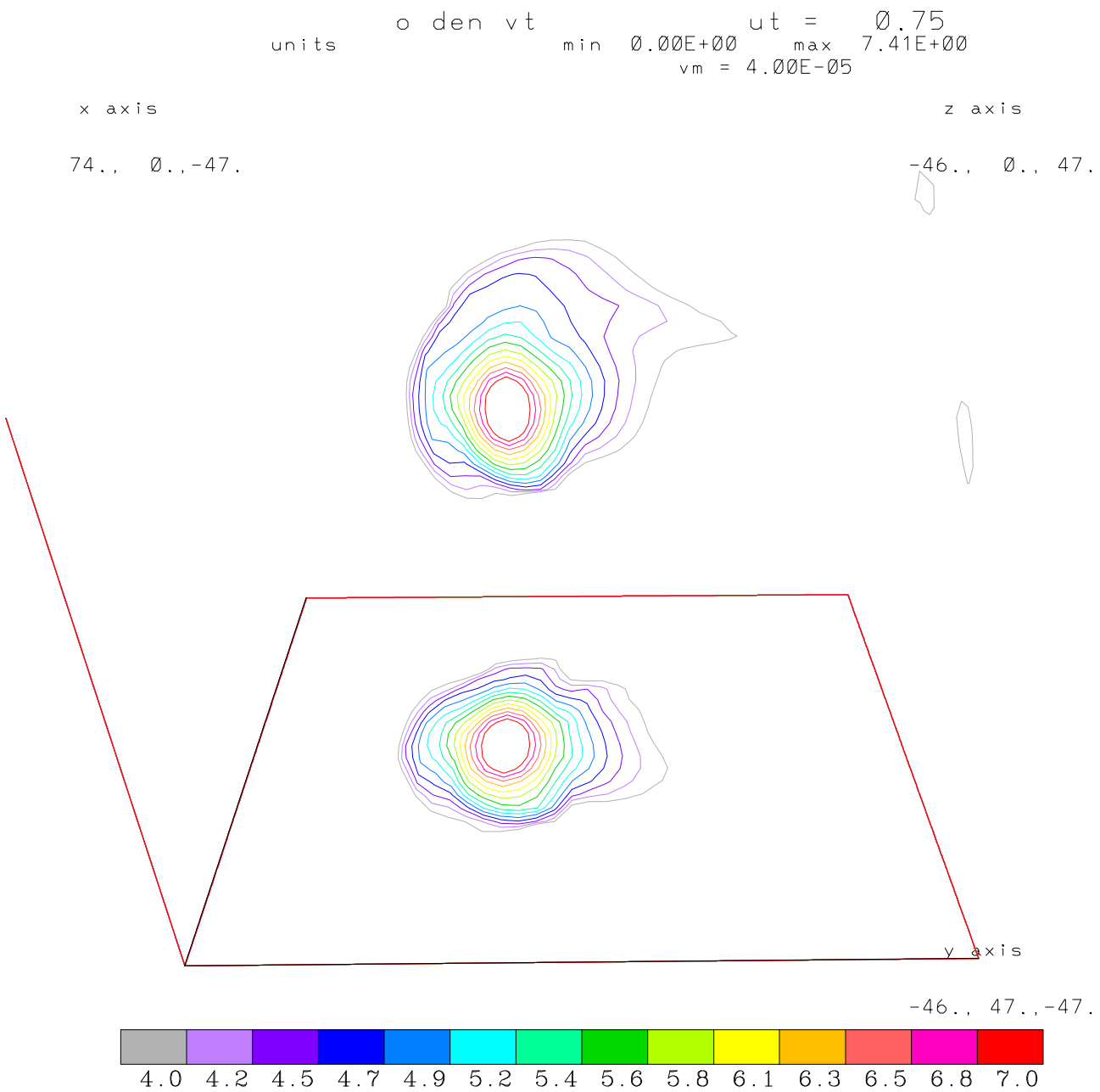
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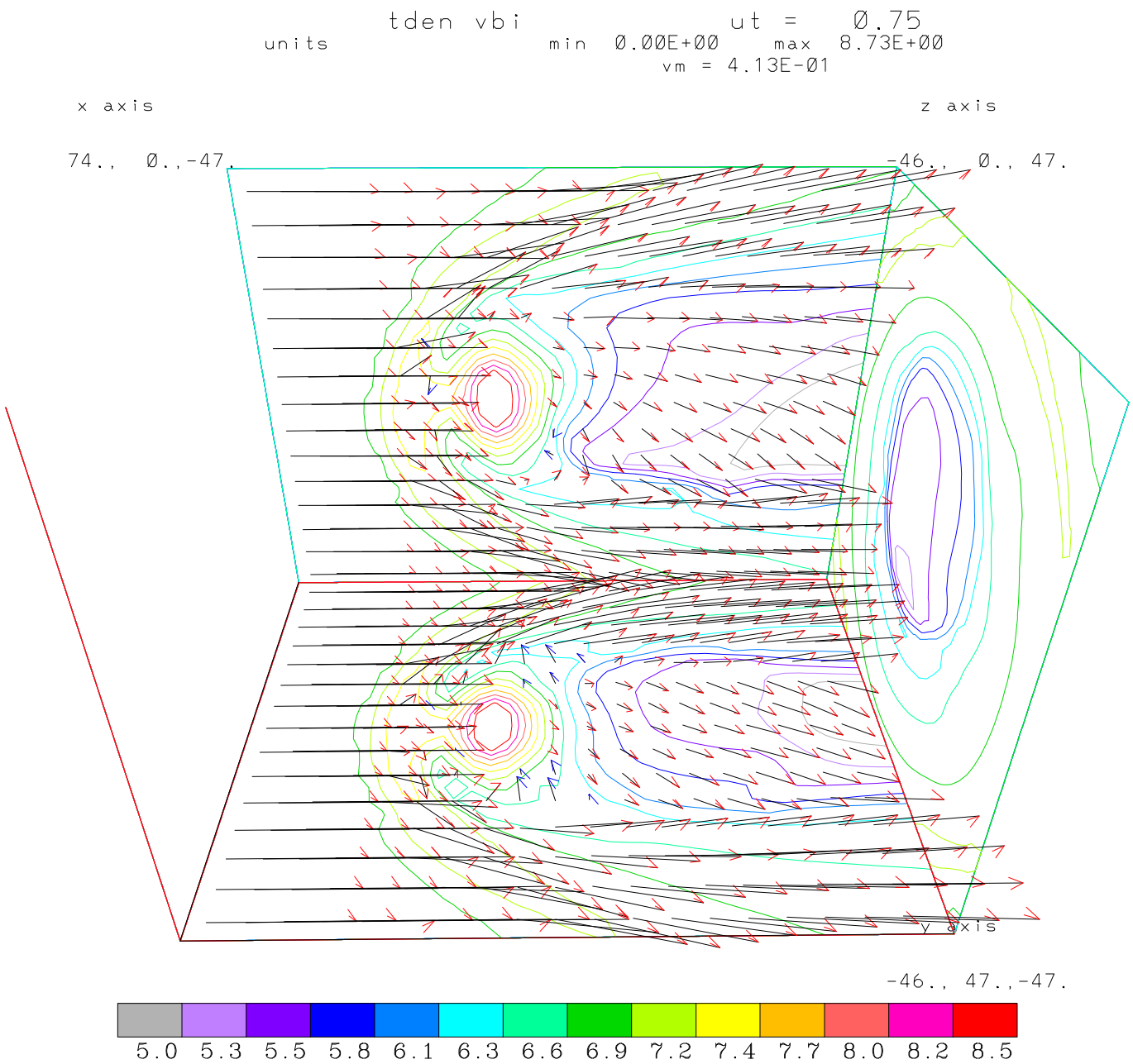
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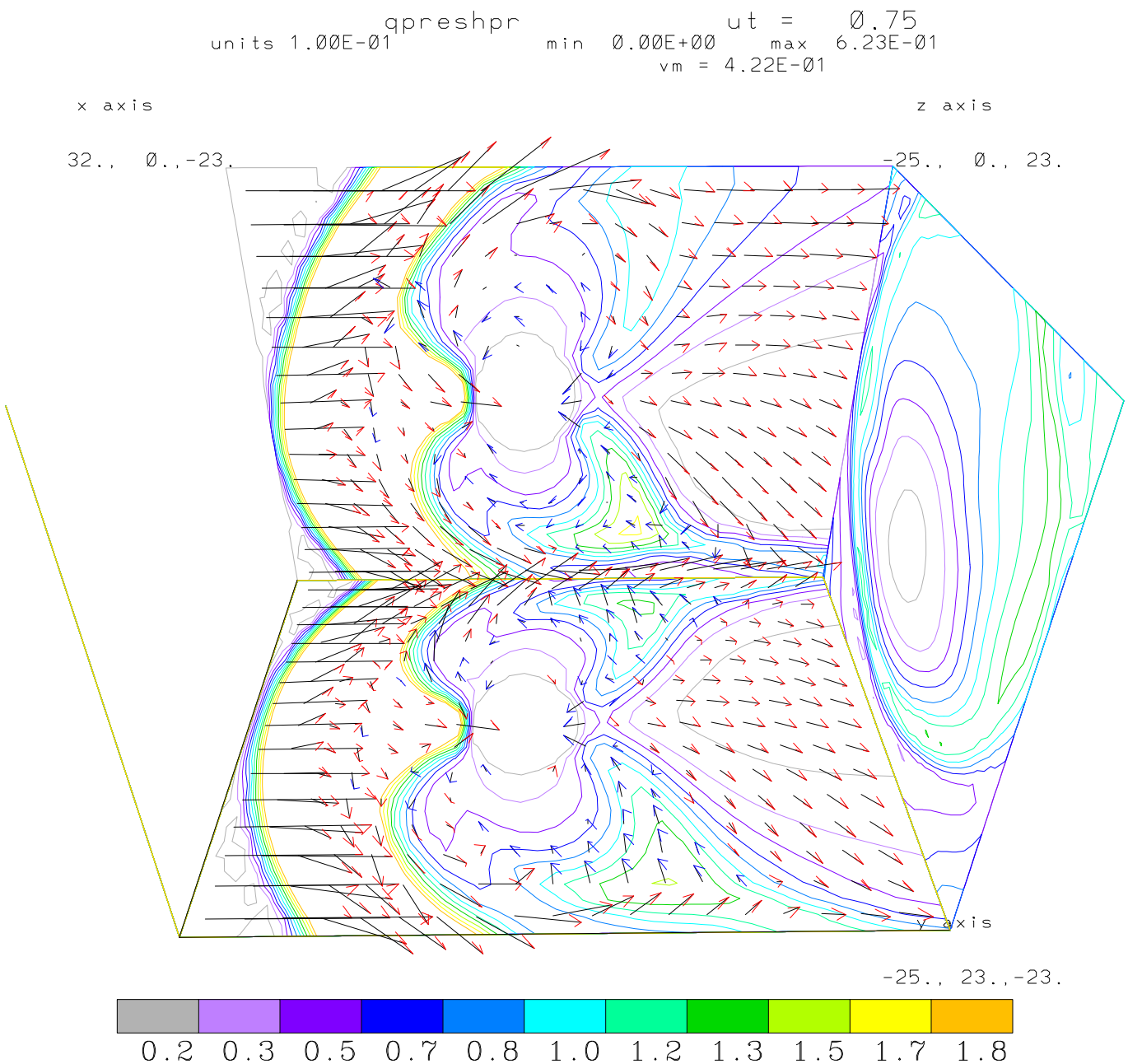
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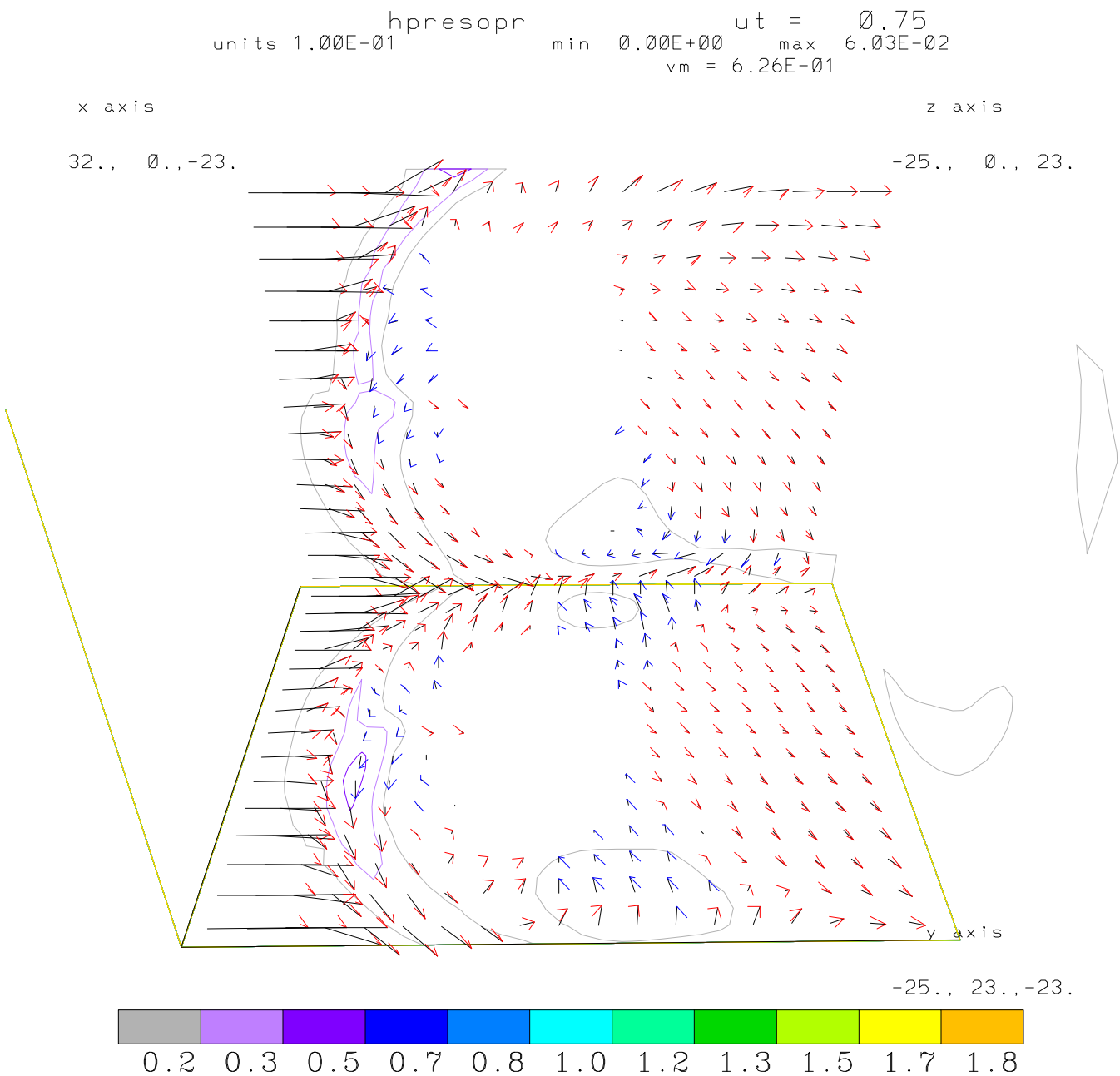
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8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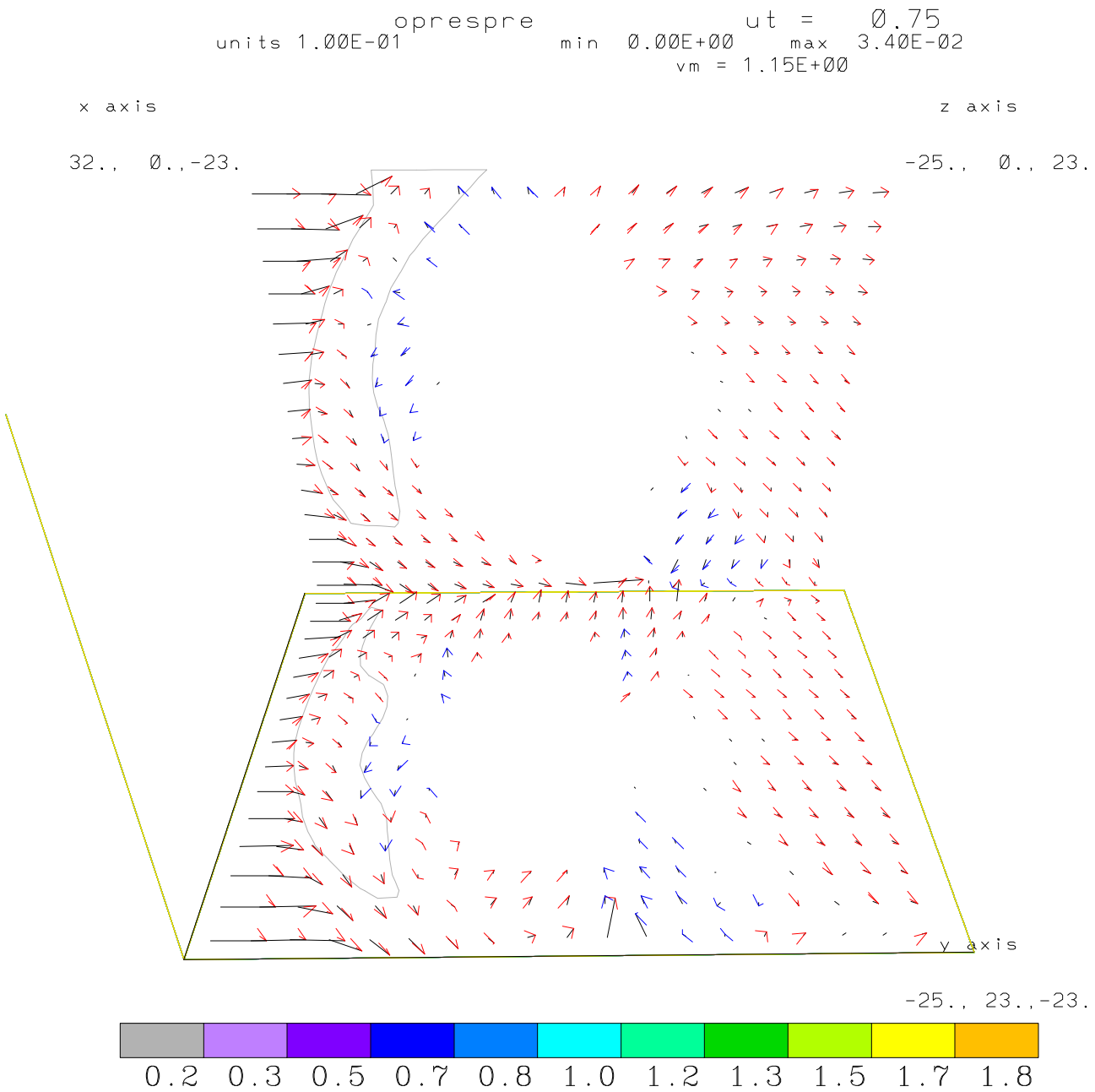
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y axis
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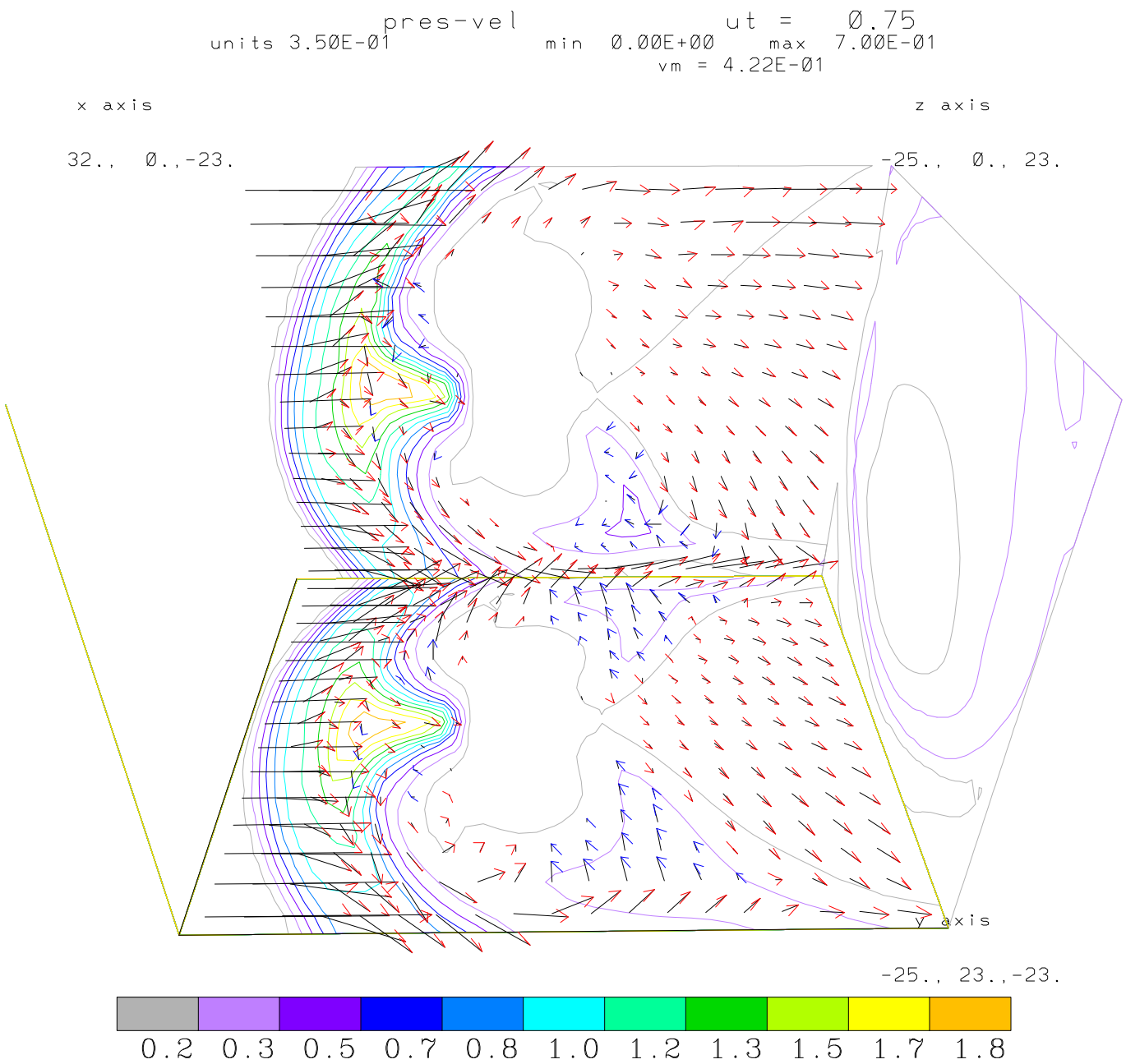
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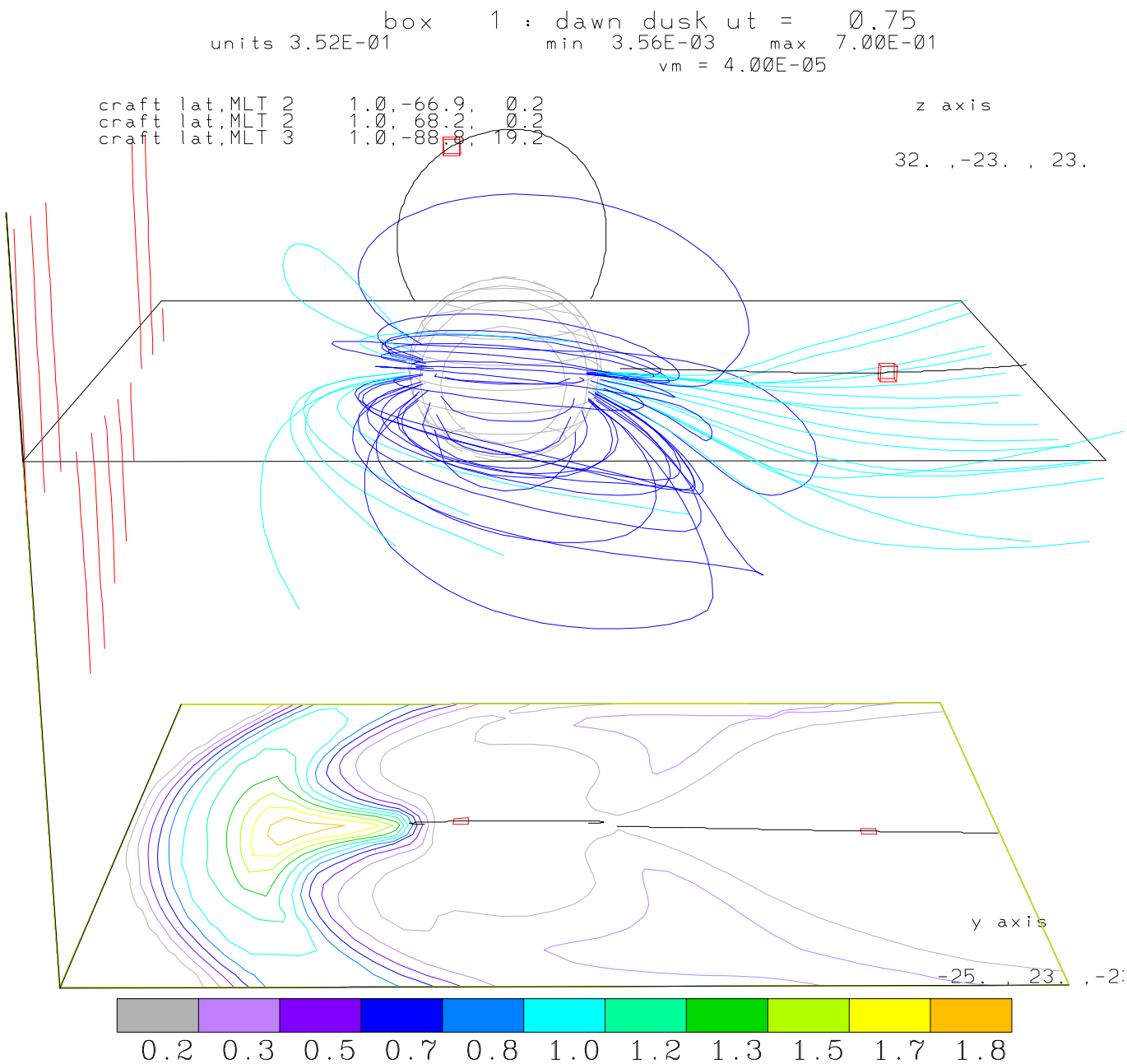
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units 3.52E-01
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craft lat,MLT 2 1.0,-66.9, 0.2
craft lat,MLT 2 1.0, 68.2, 0.2
craft lat,MLT 3 1.0,-88.8, 19.2
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y axis
-25. , 23. ,-2
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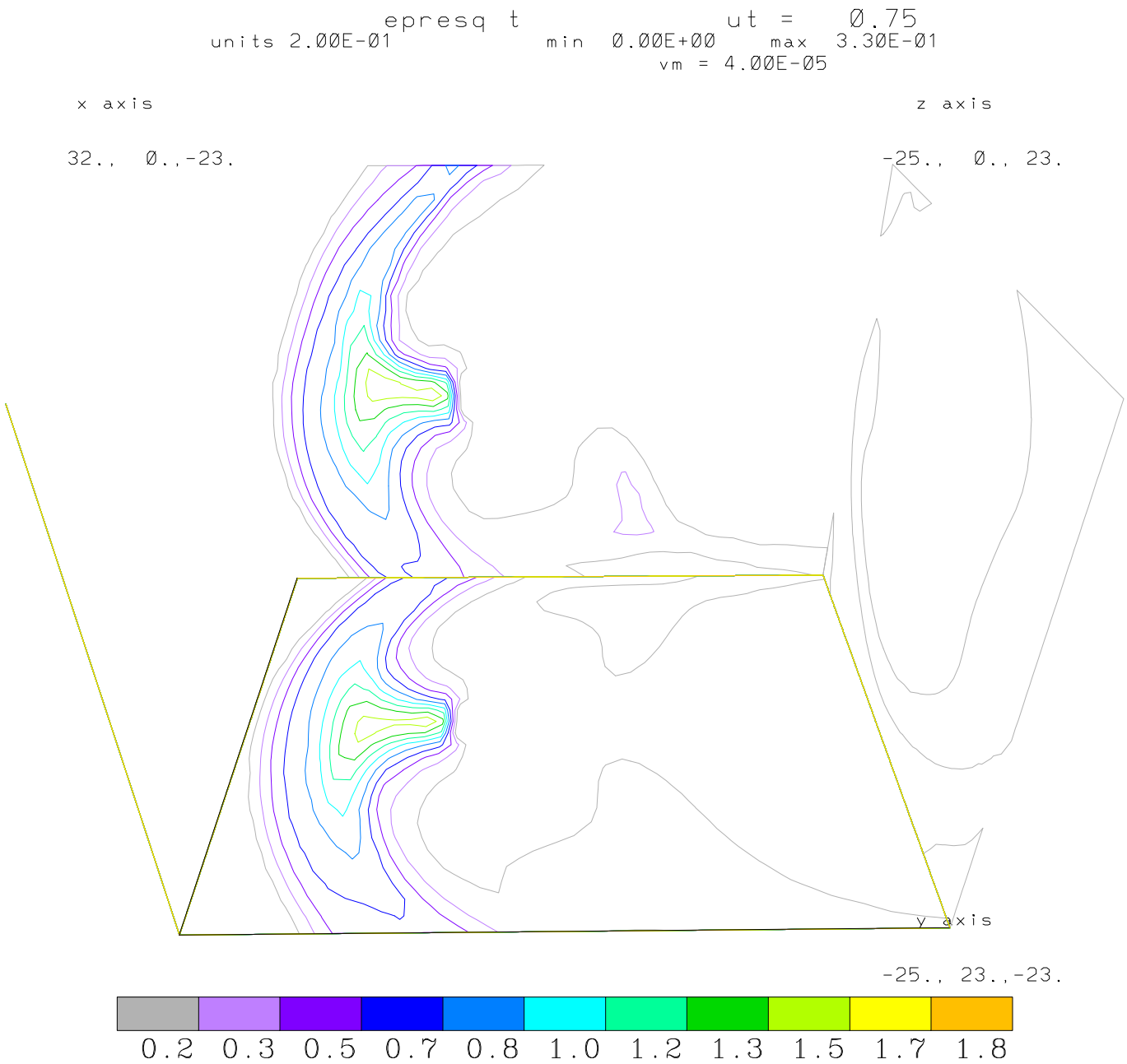
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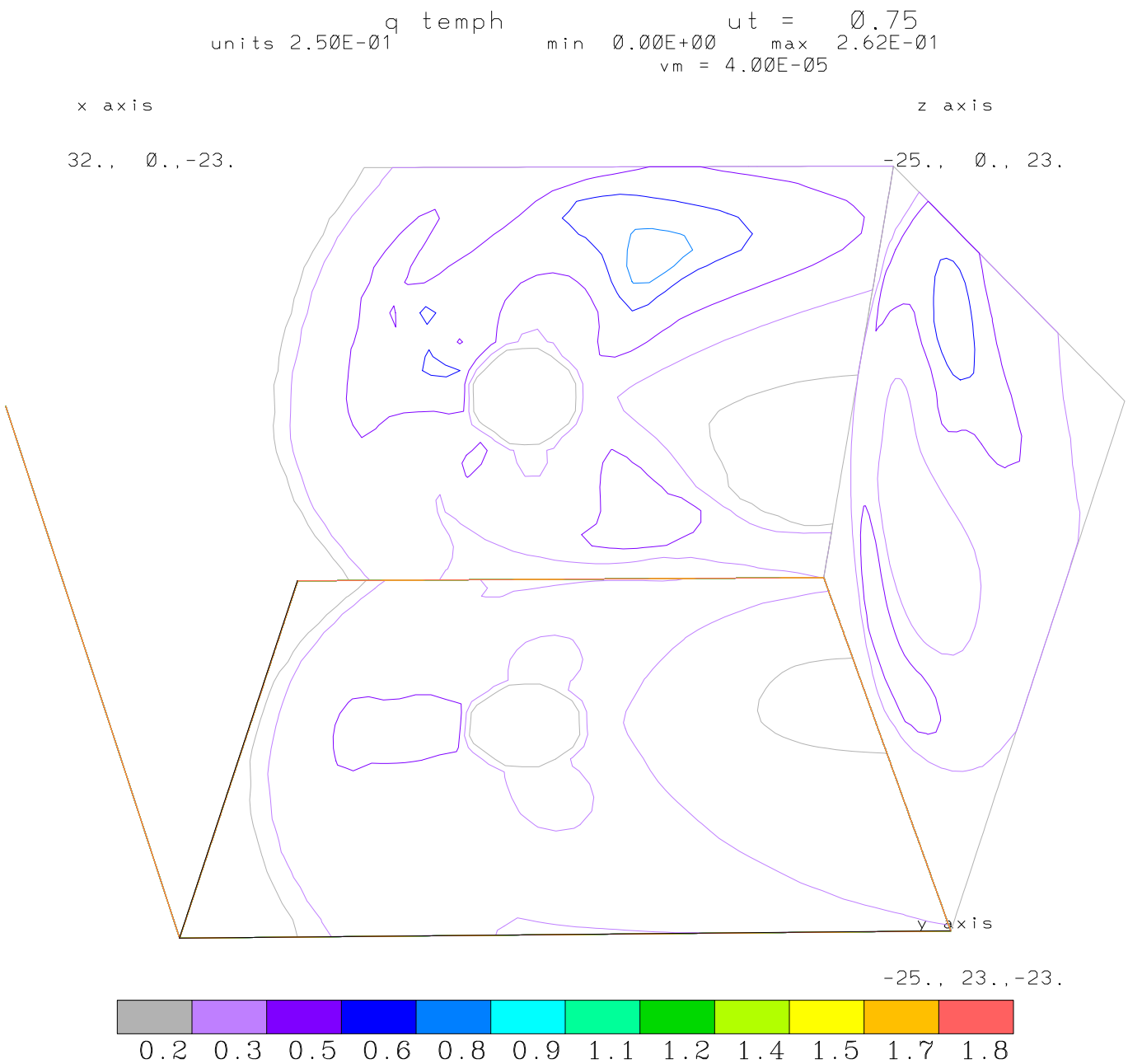
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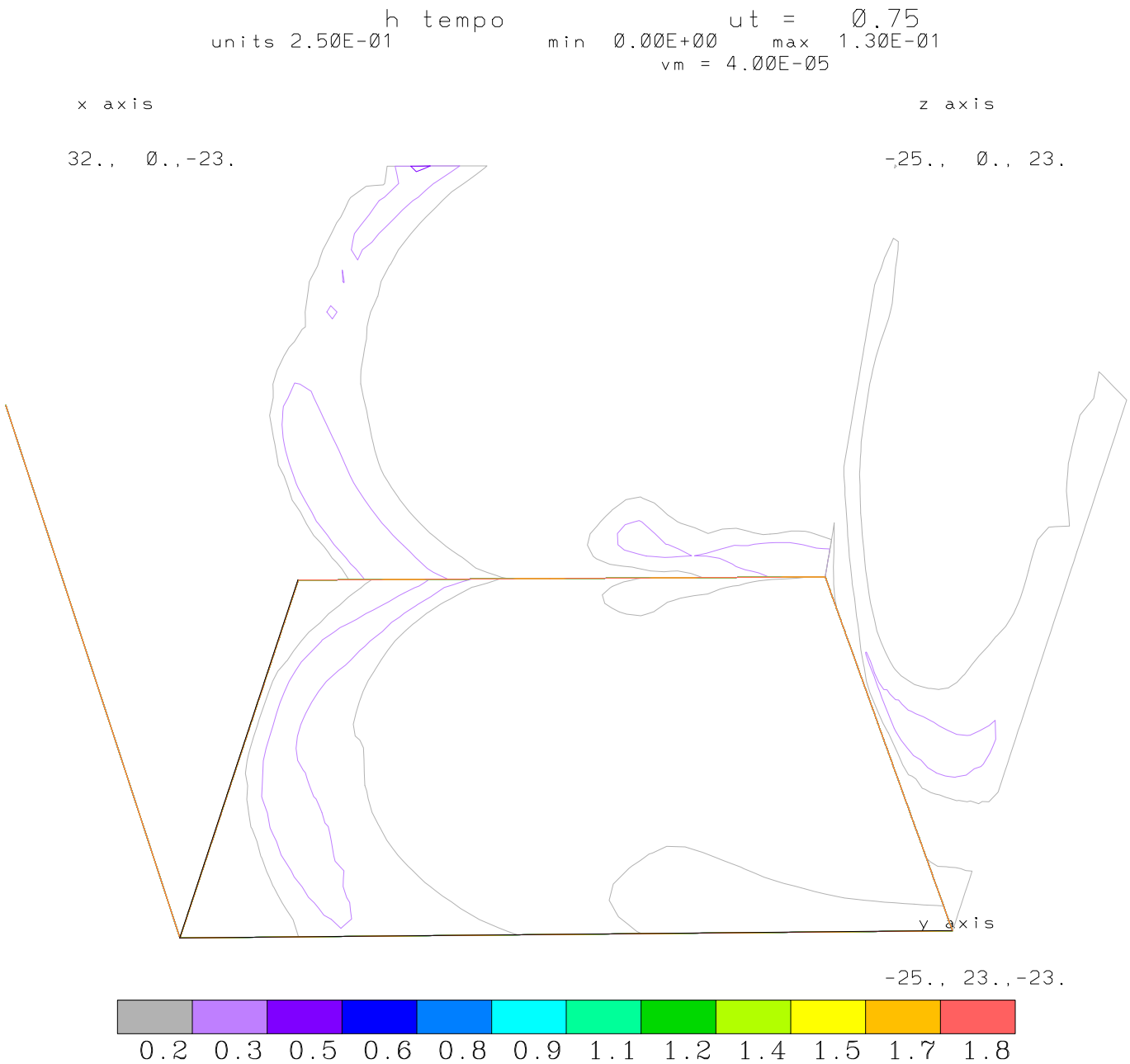
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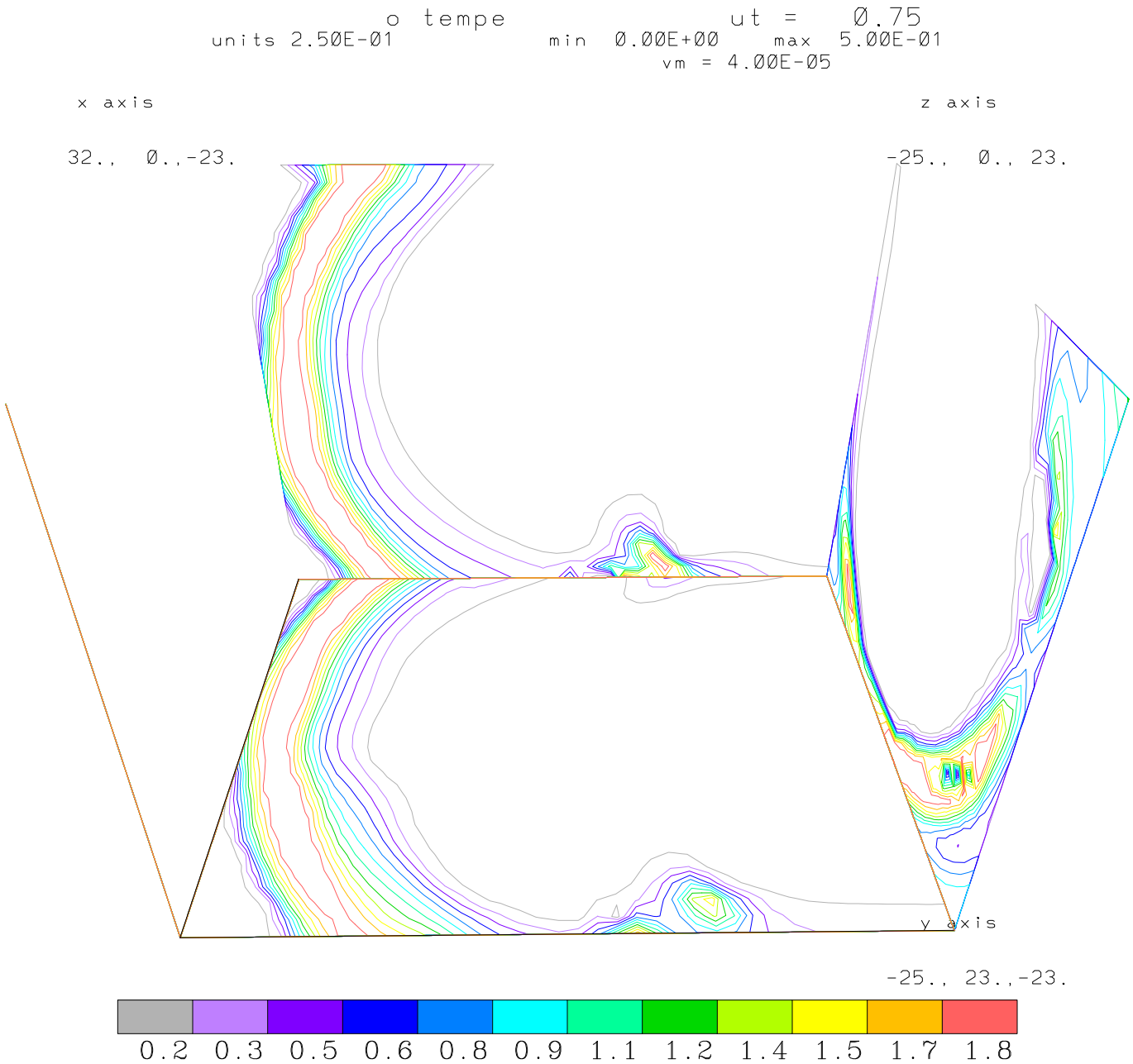
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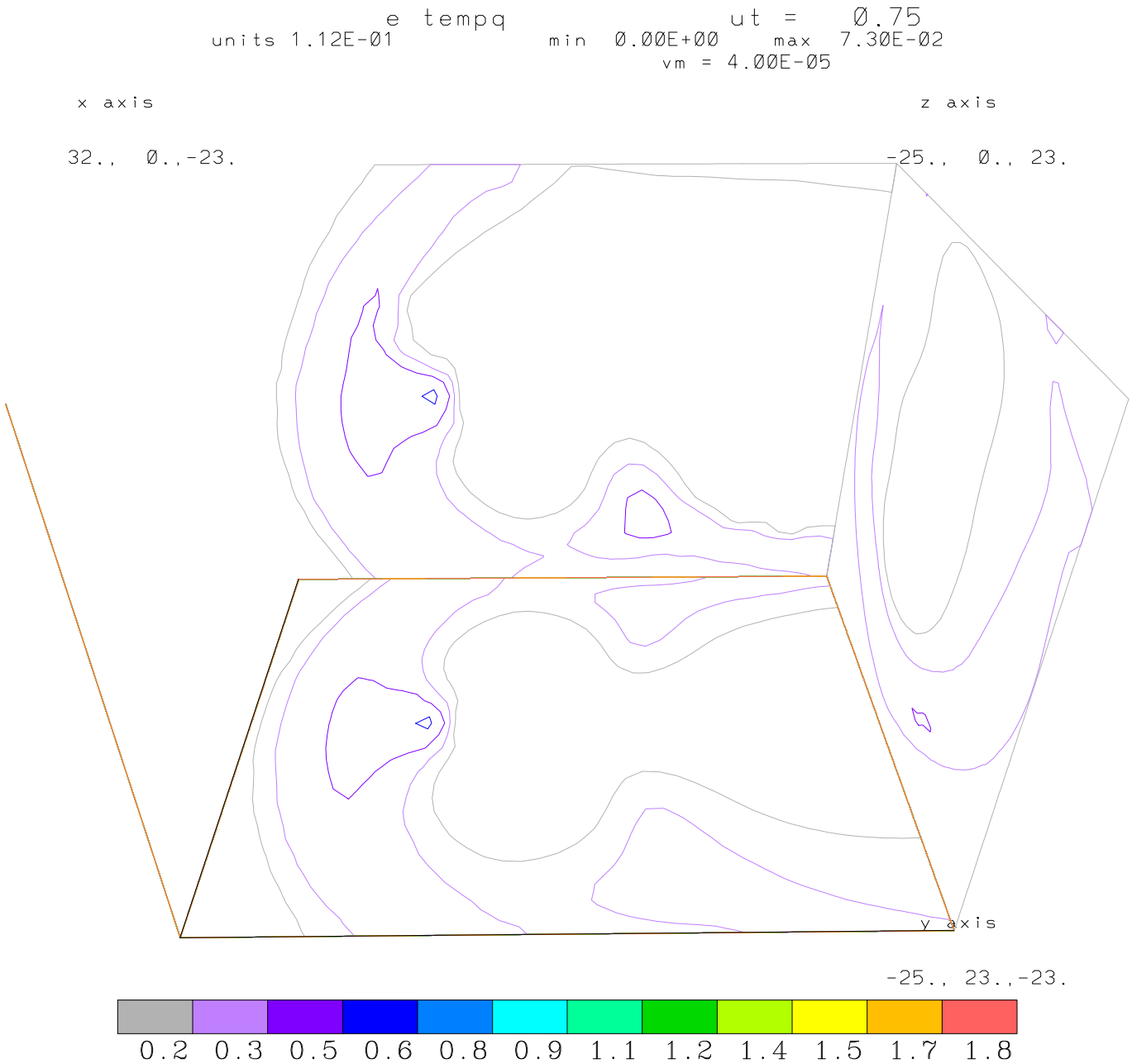
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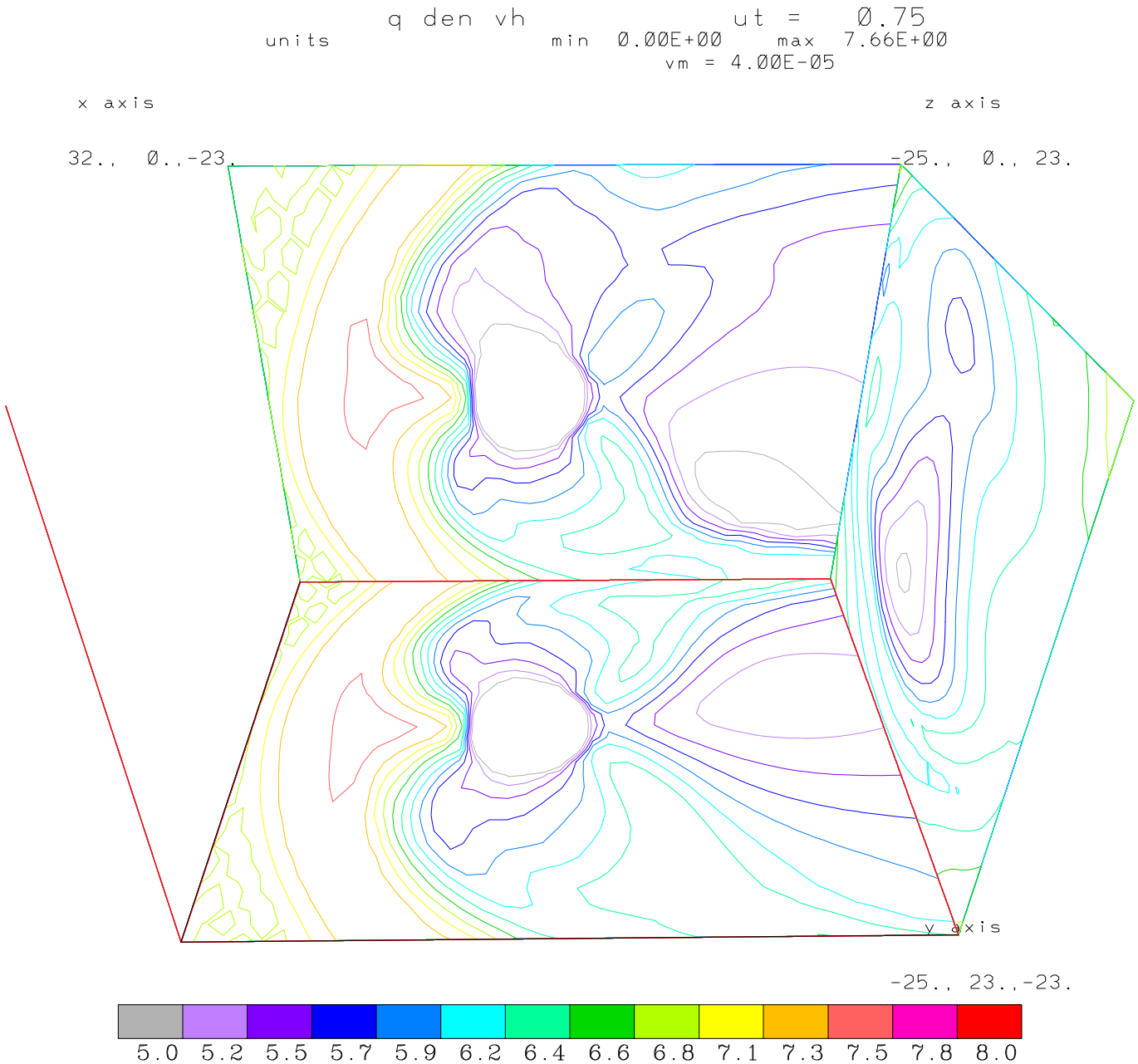
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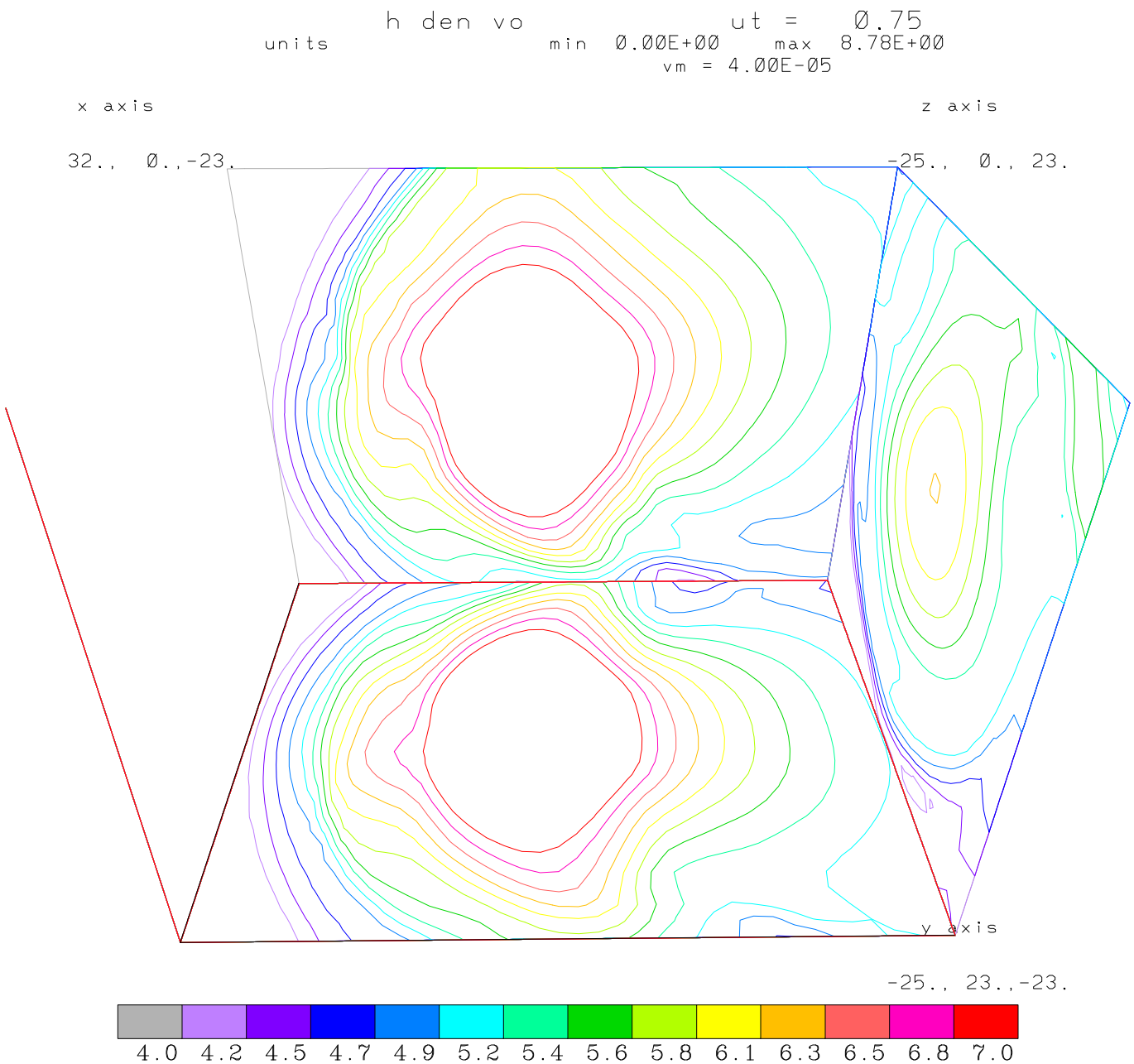
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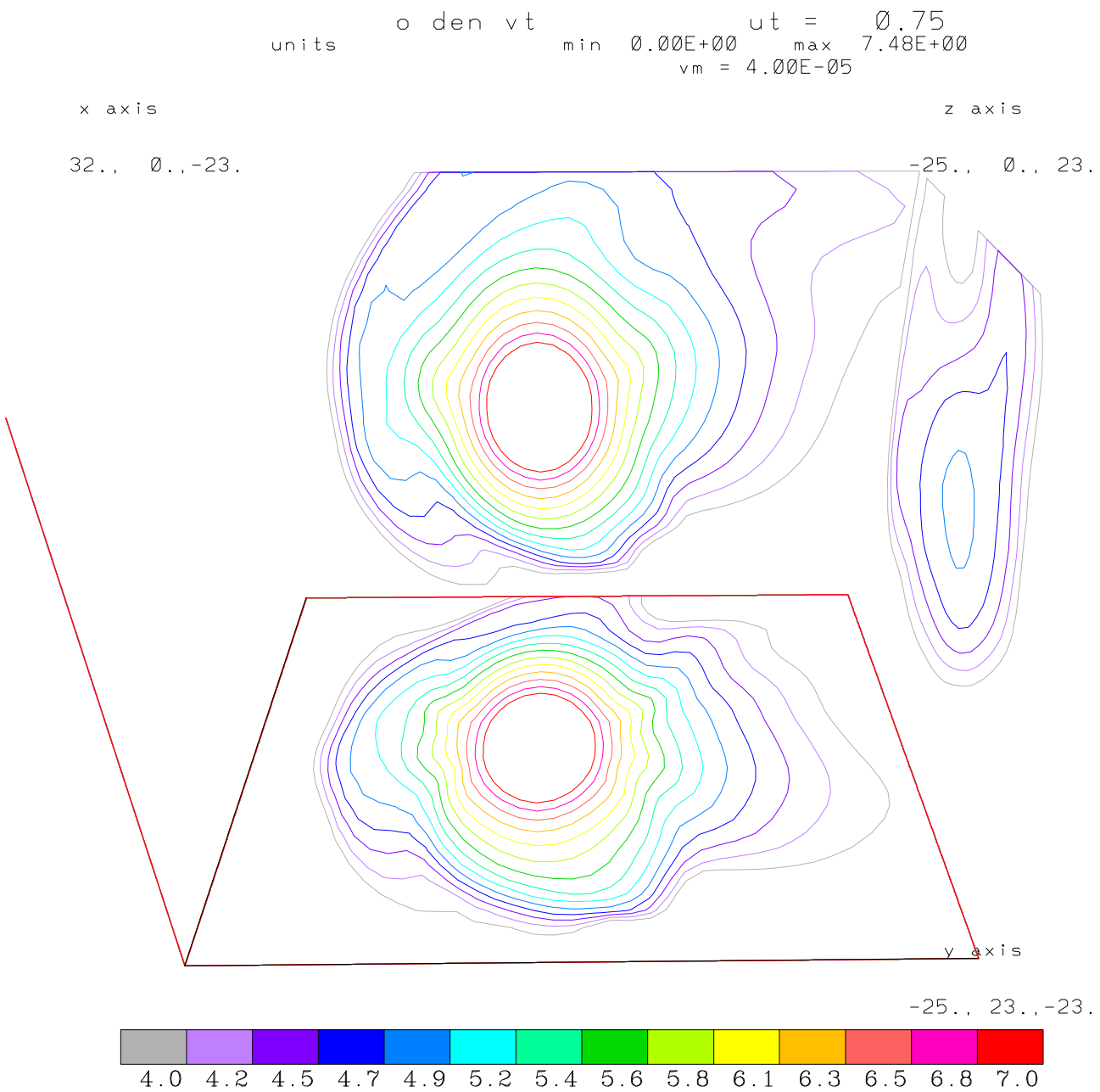
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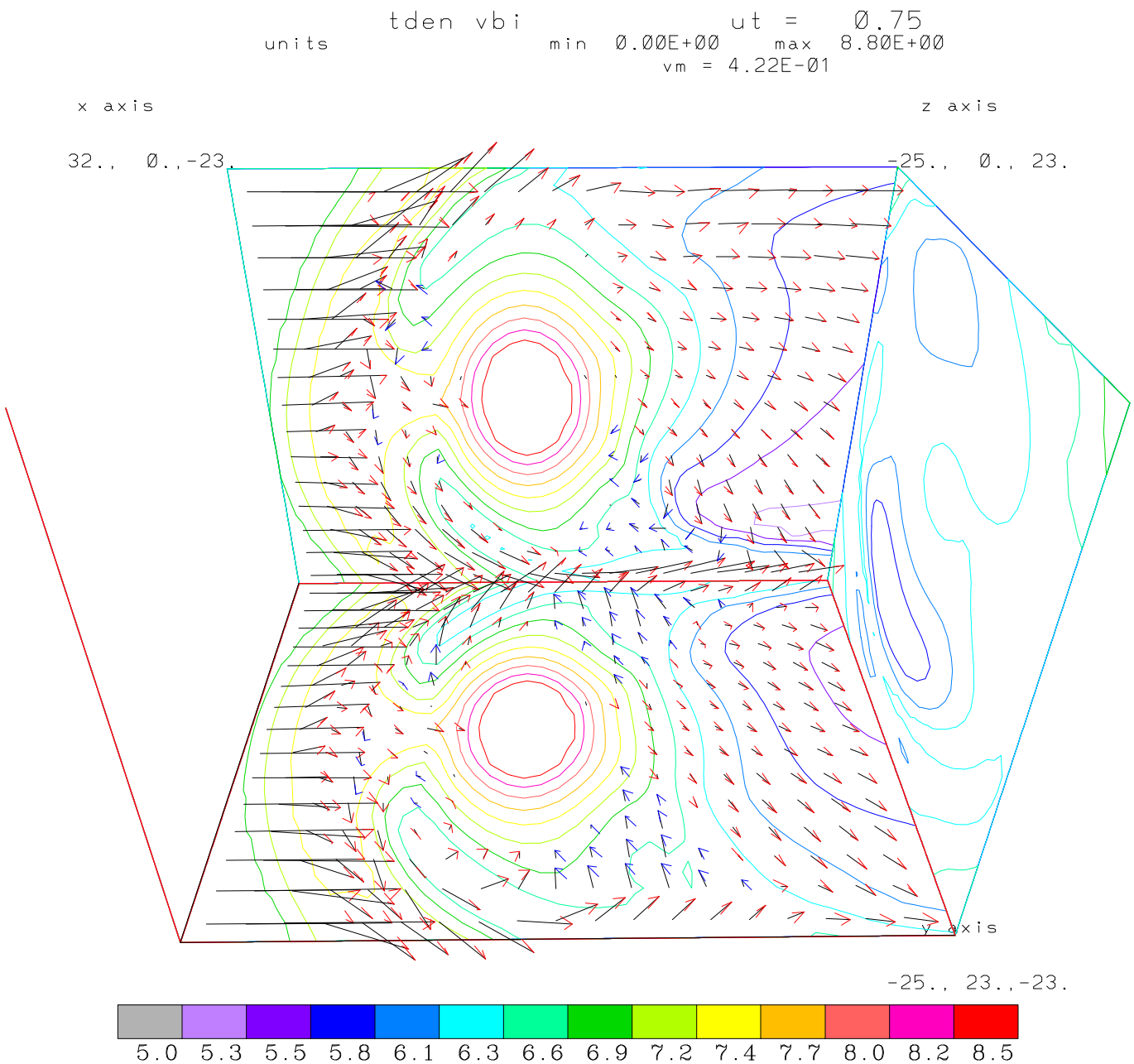
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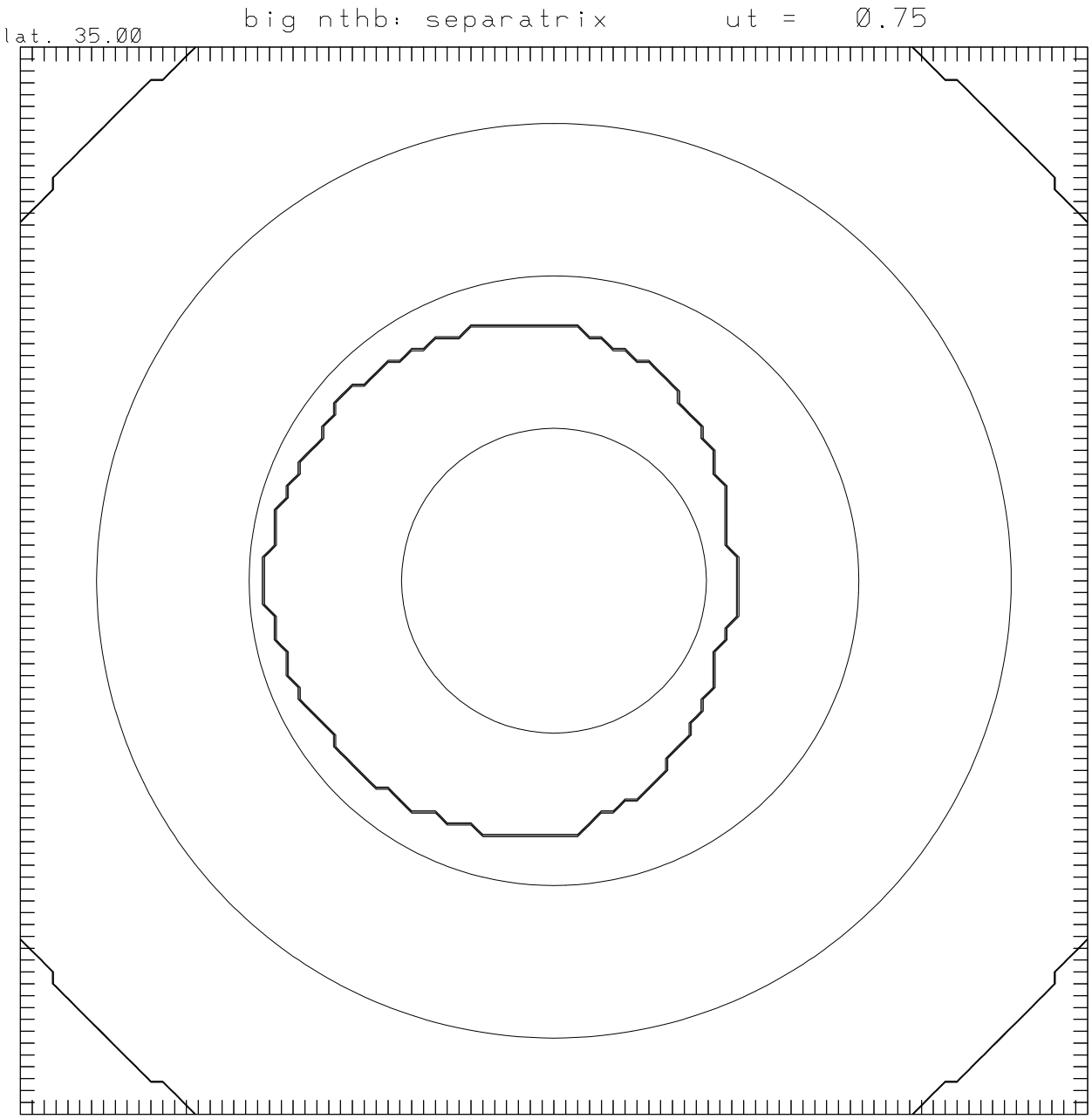
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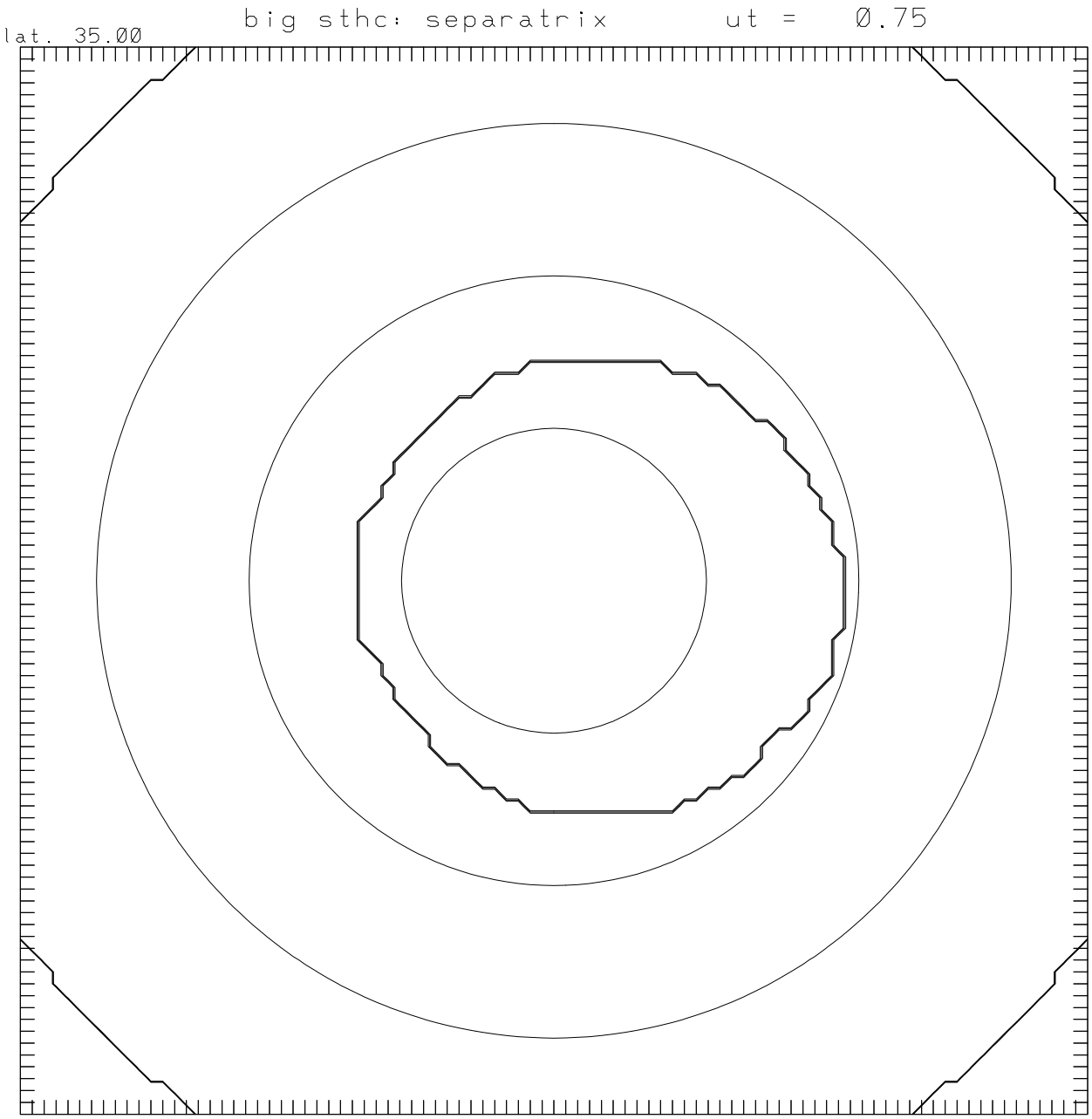
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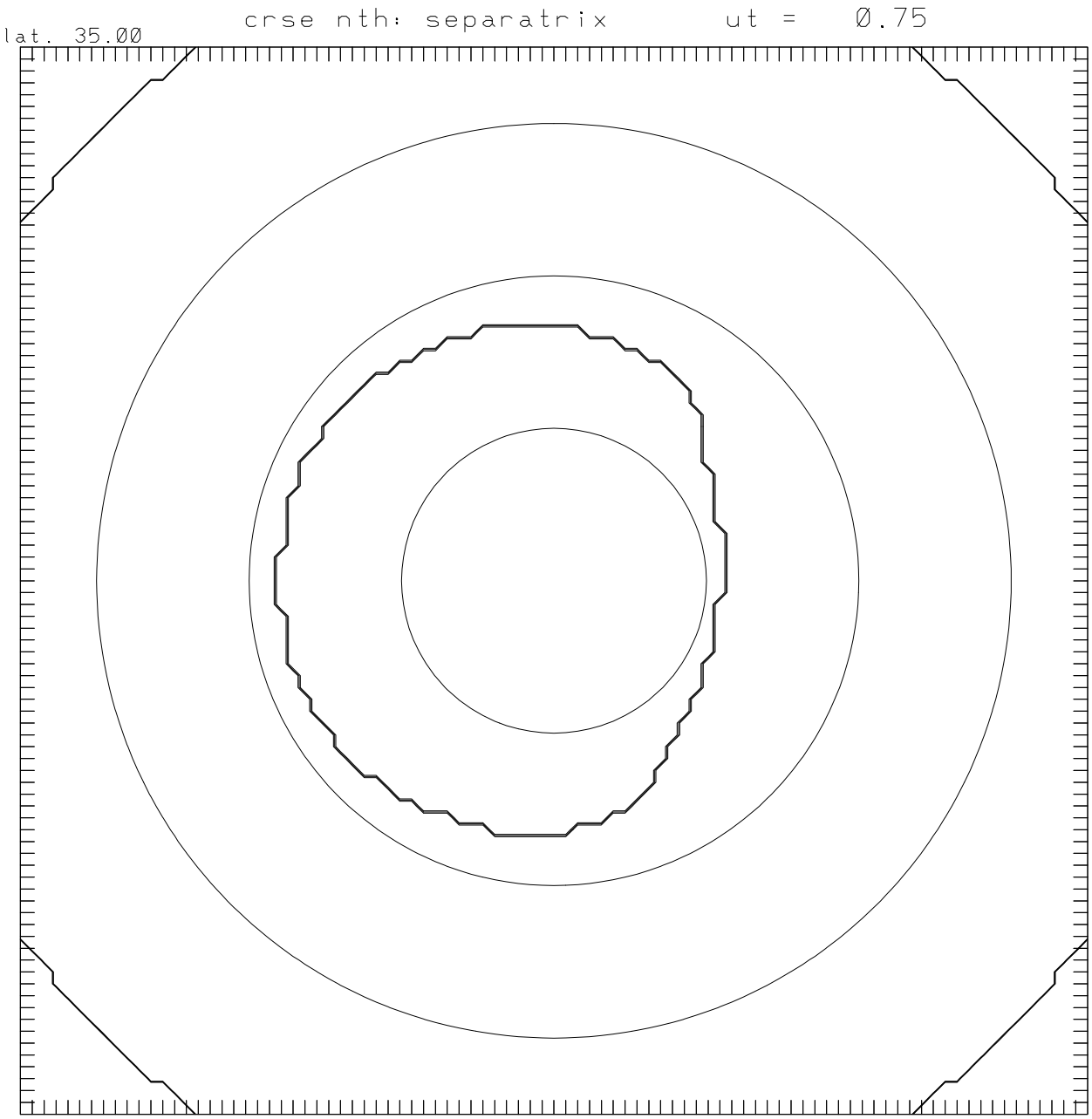
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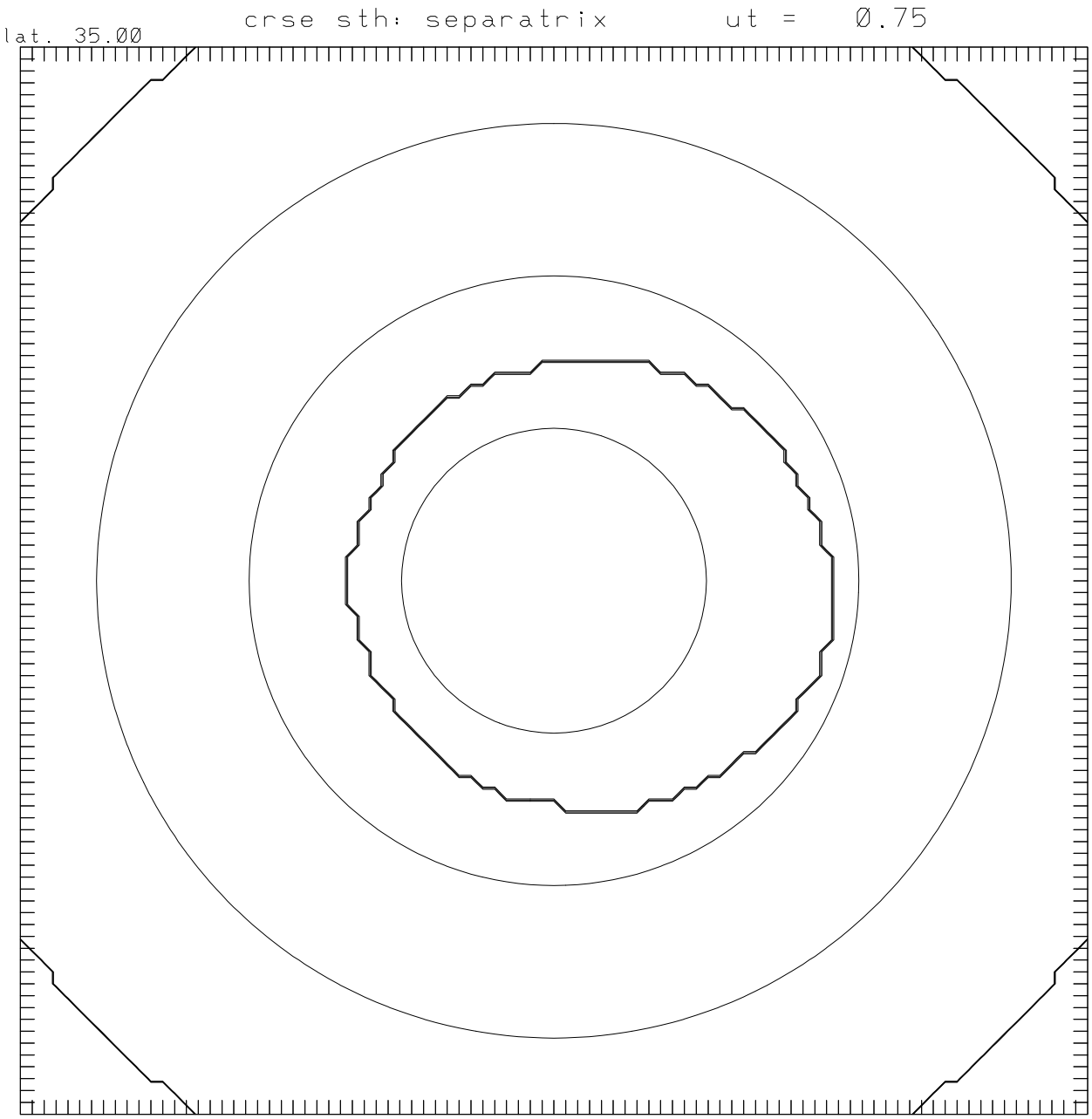
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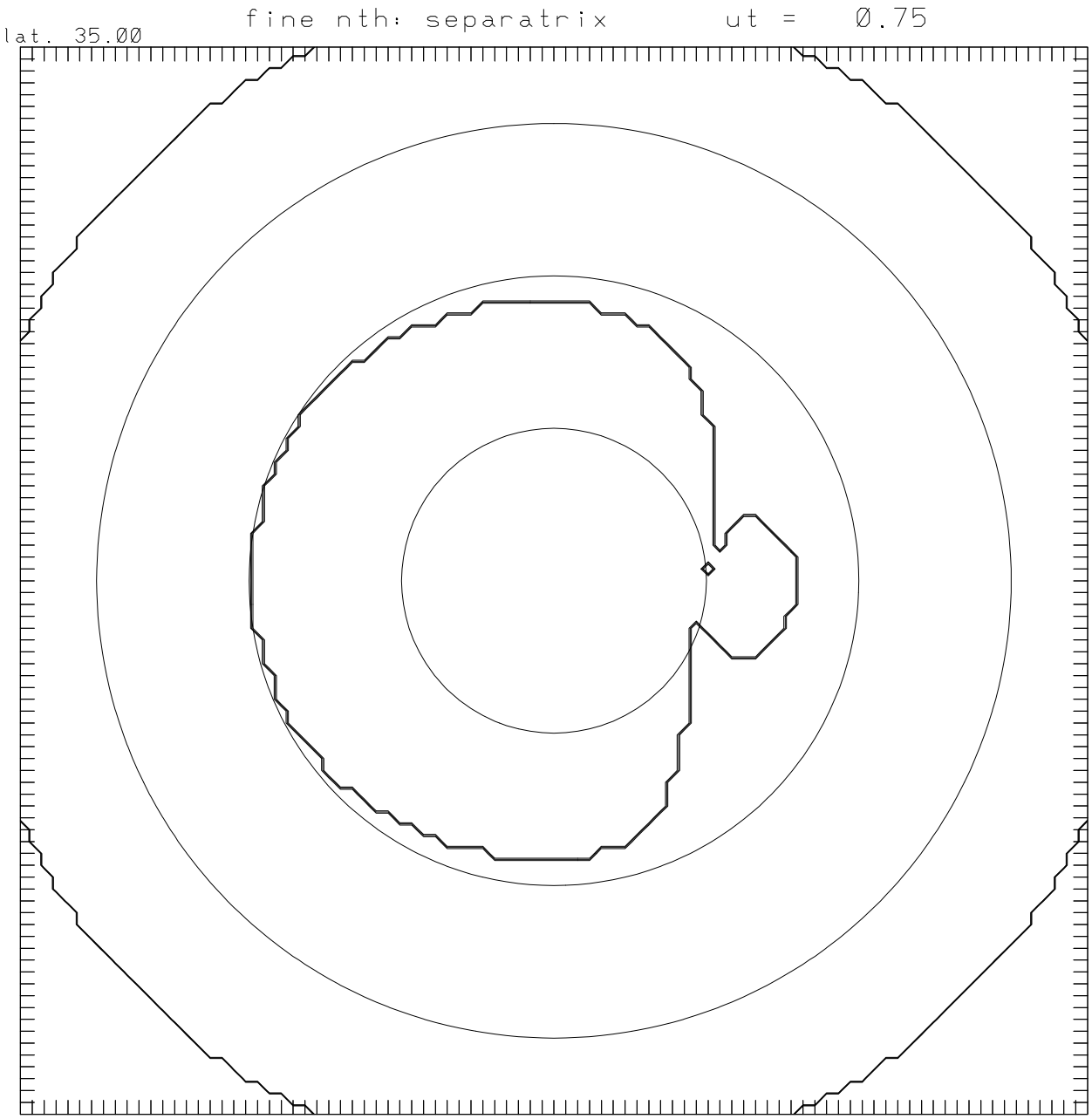
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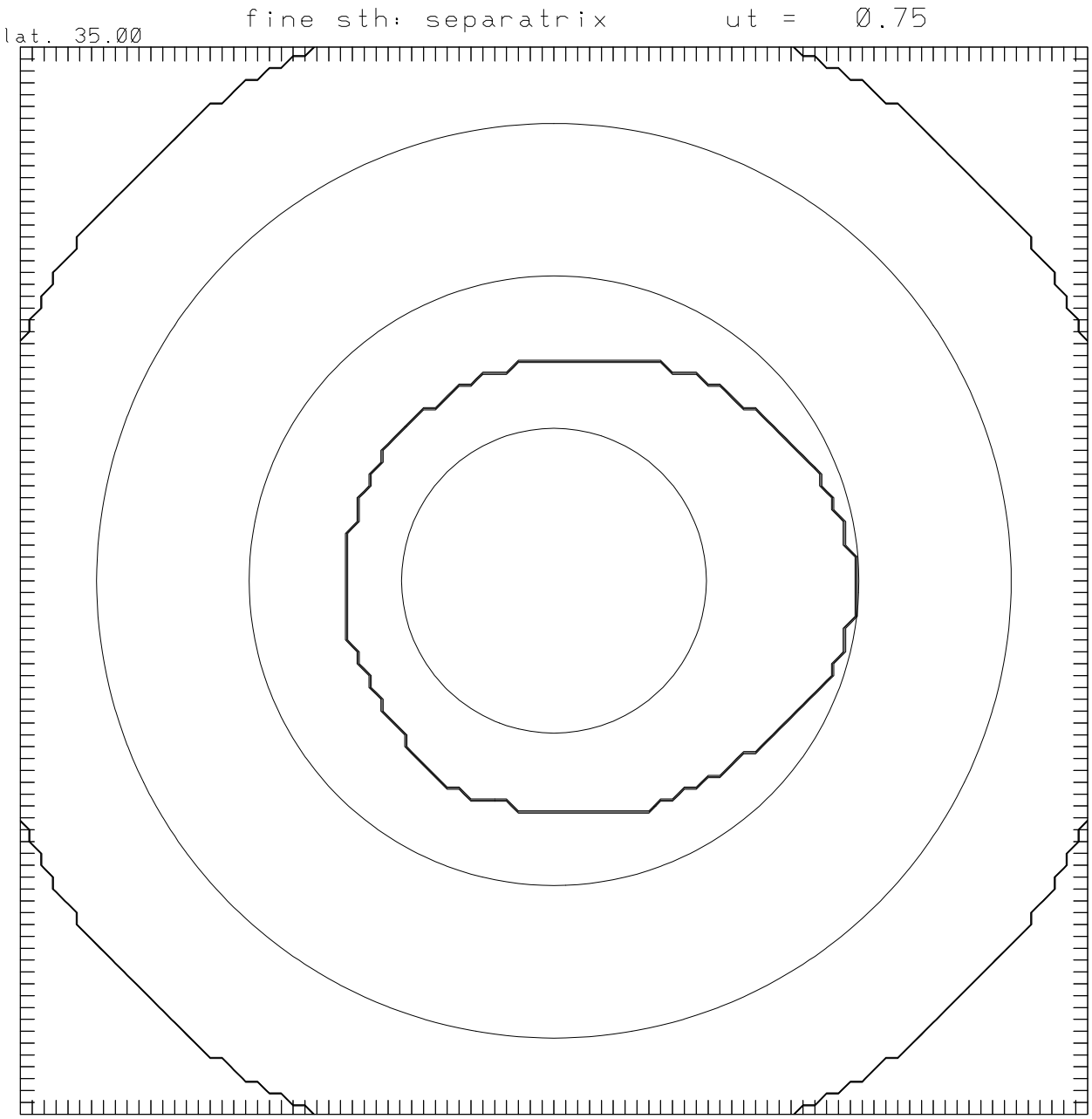
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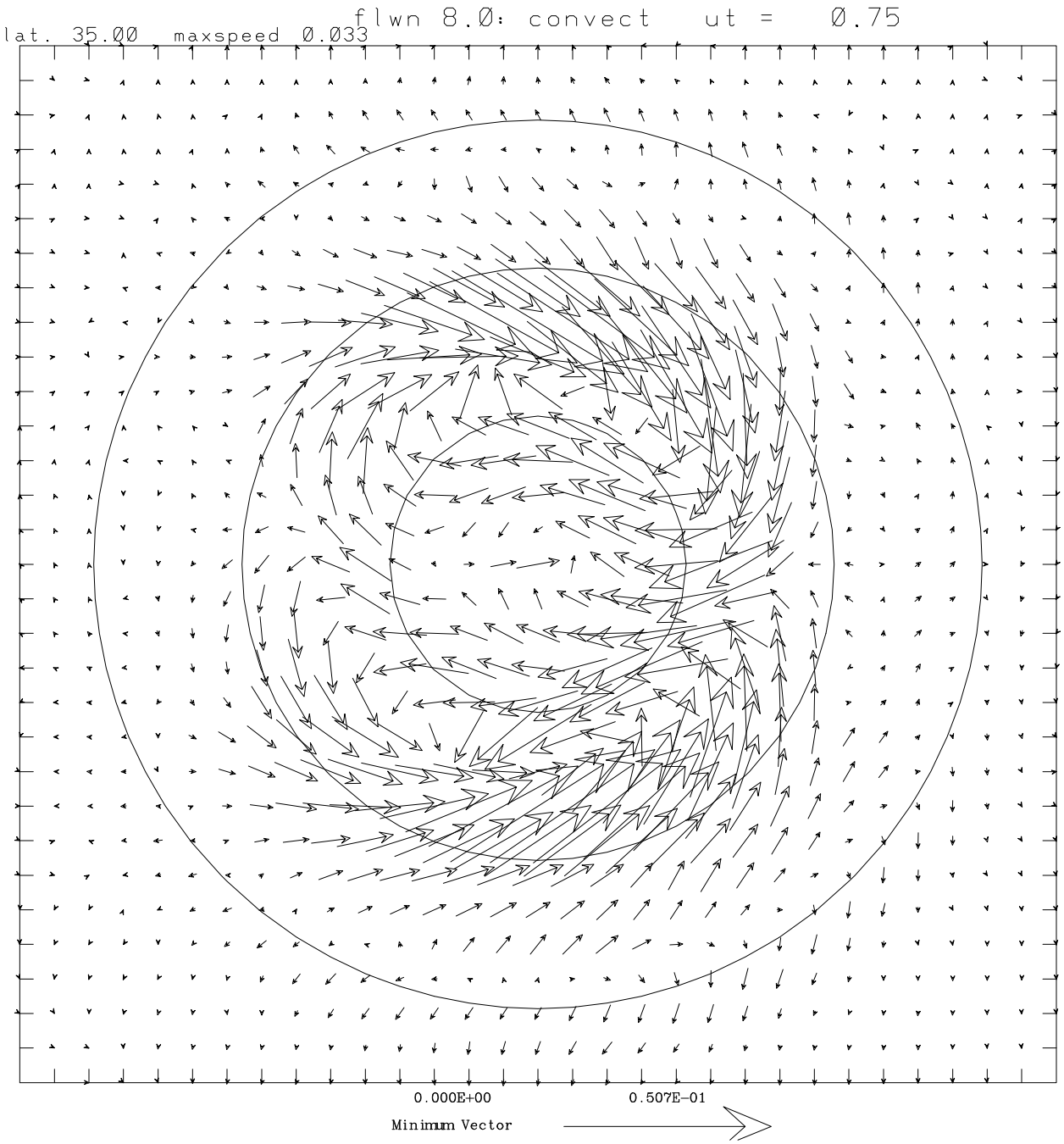
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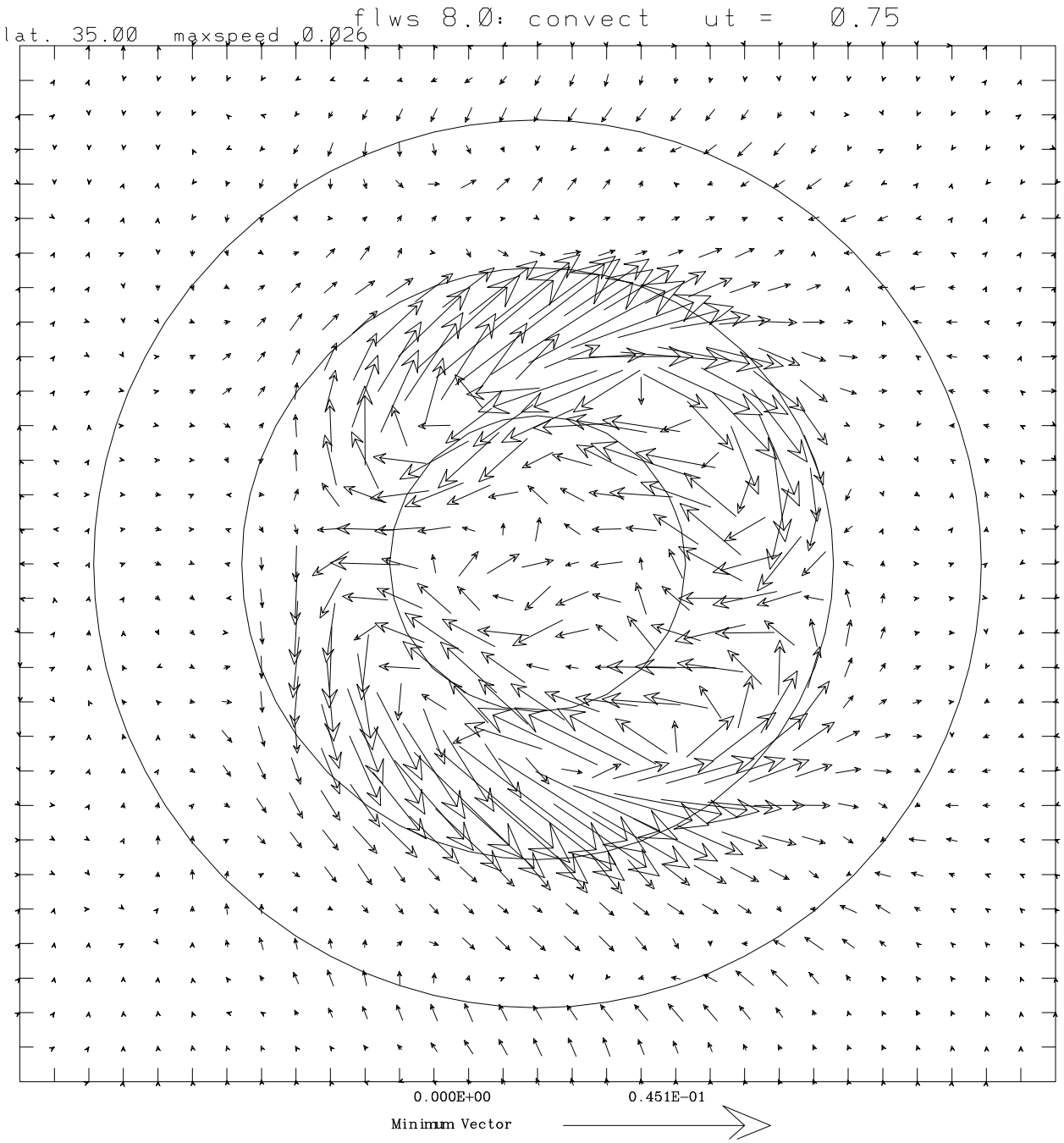
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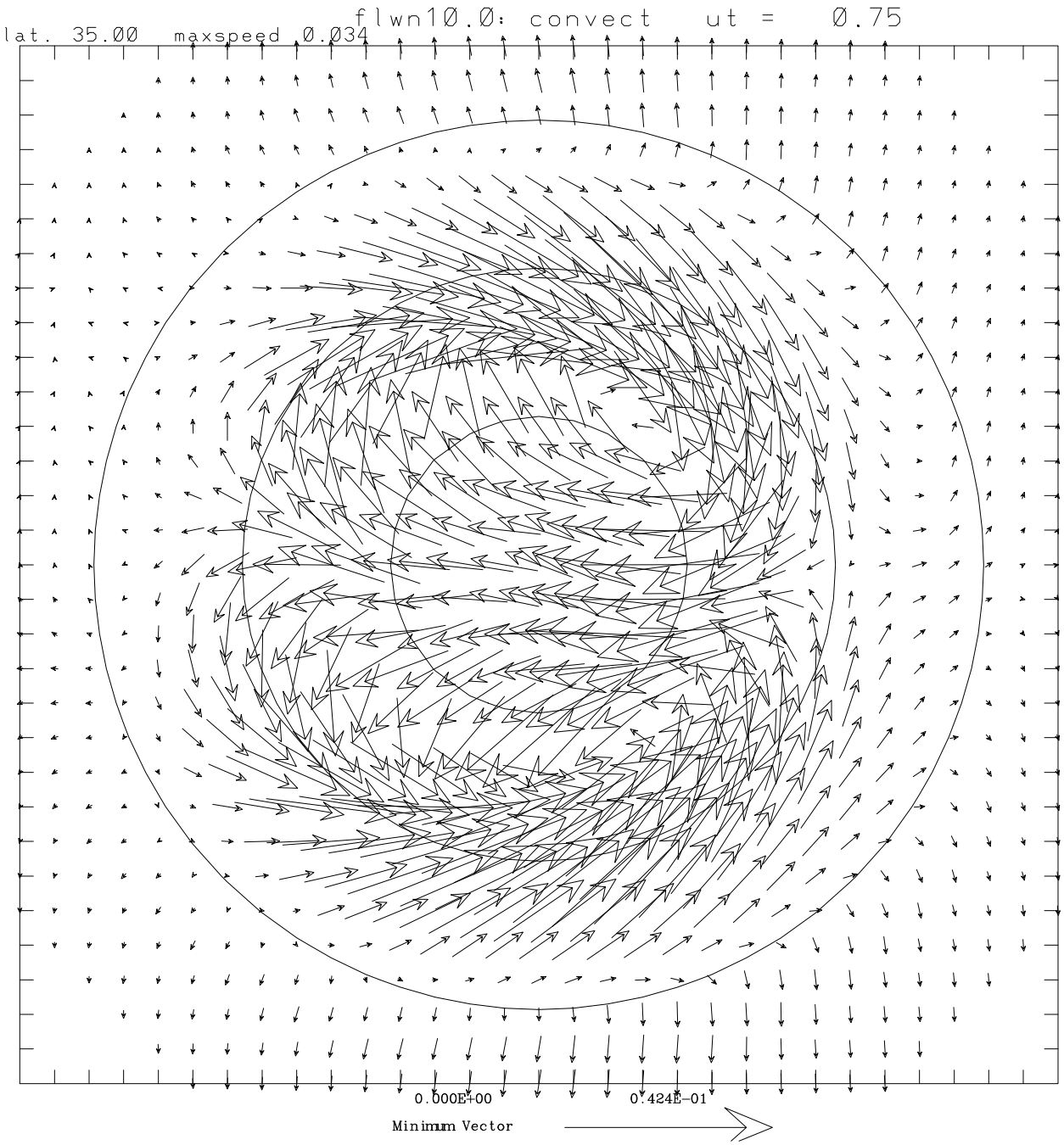
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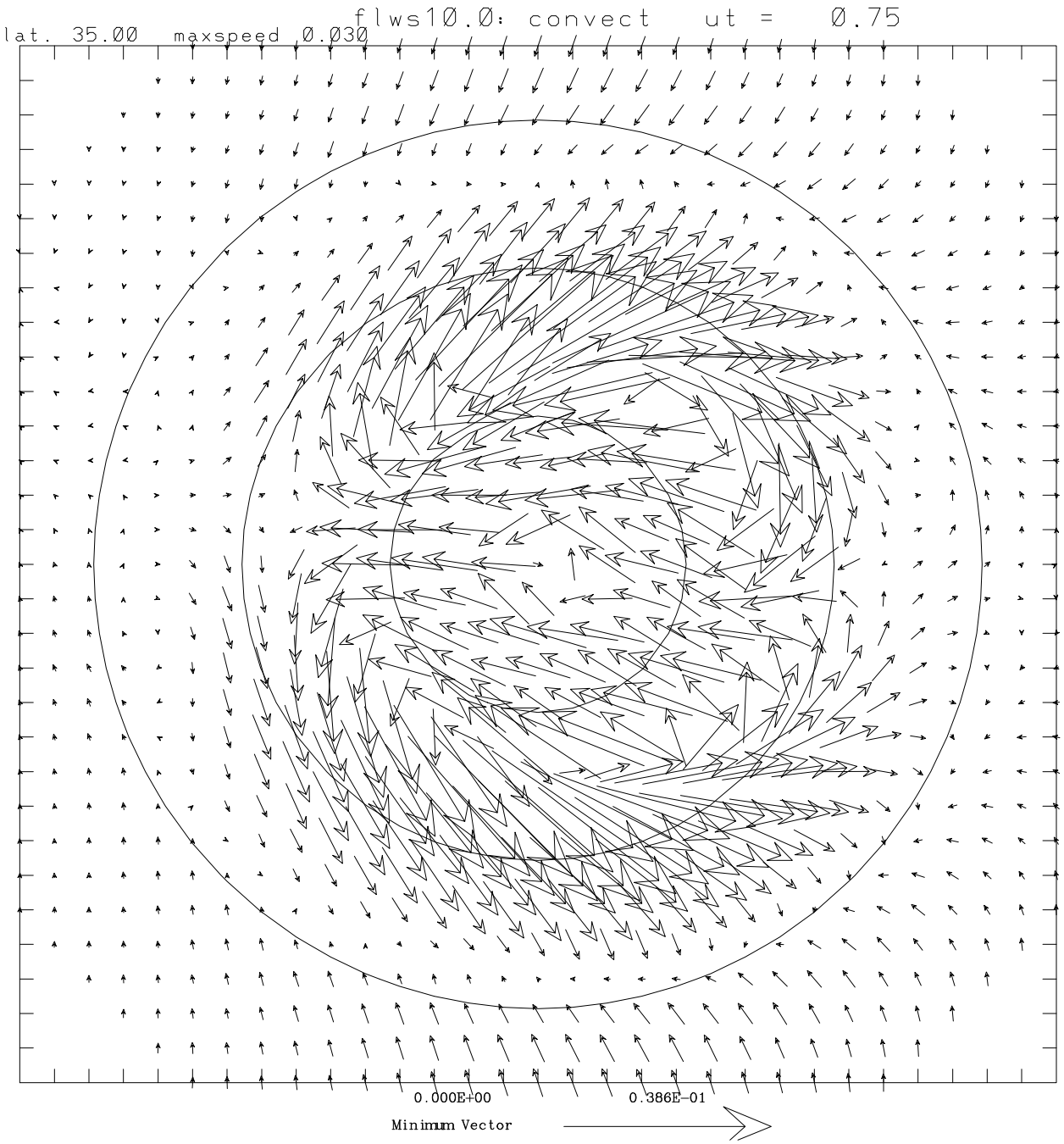
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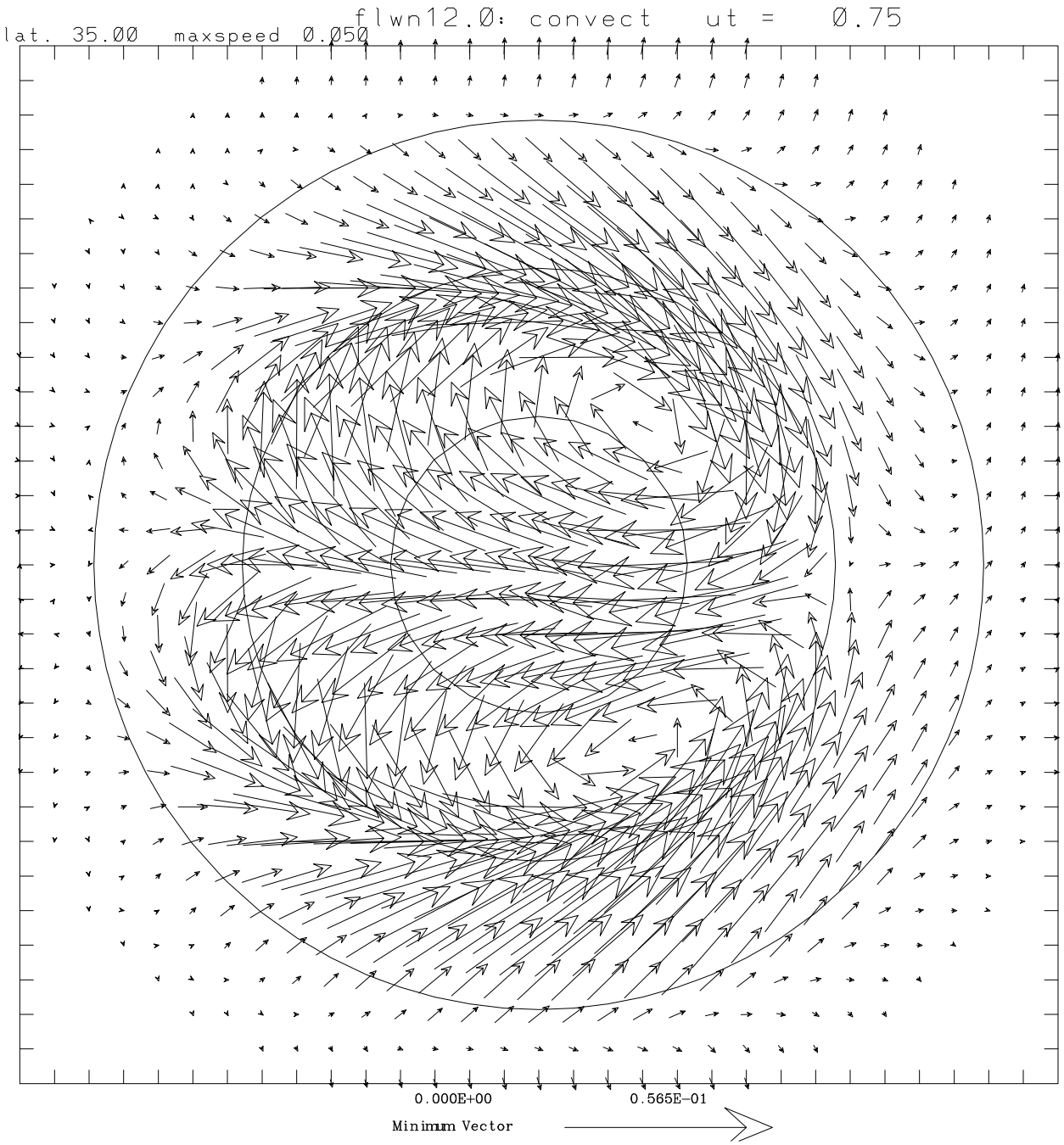
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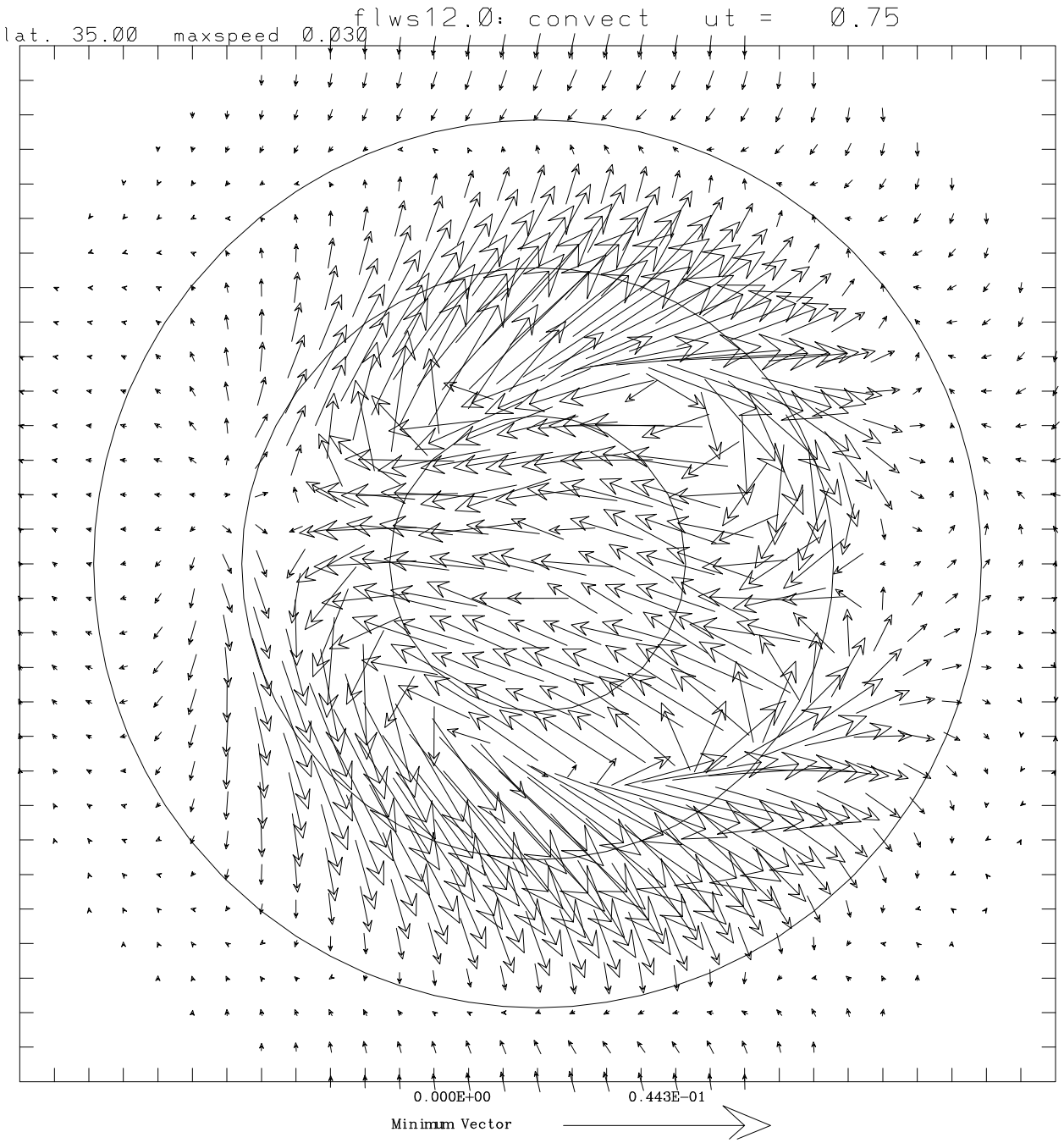
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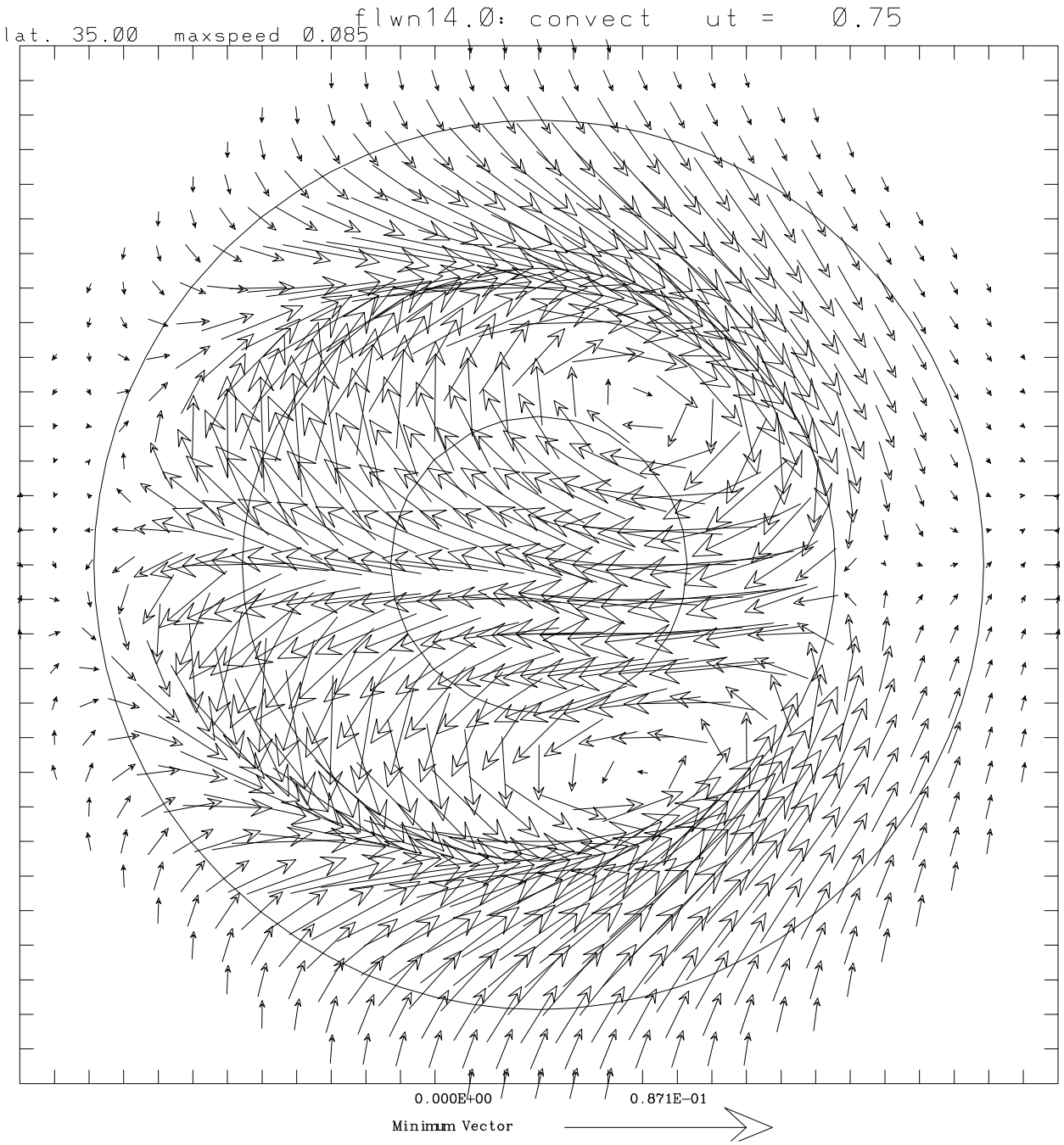
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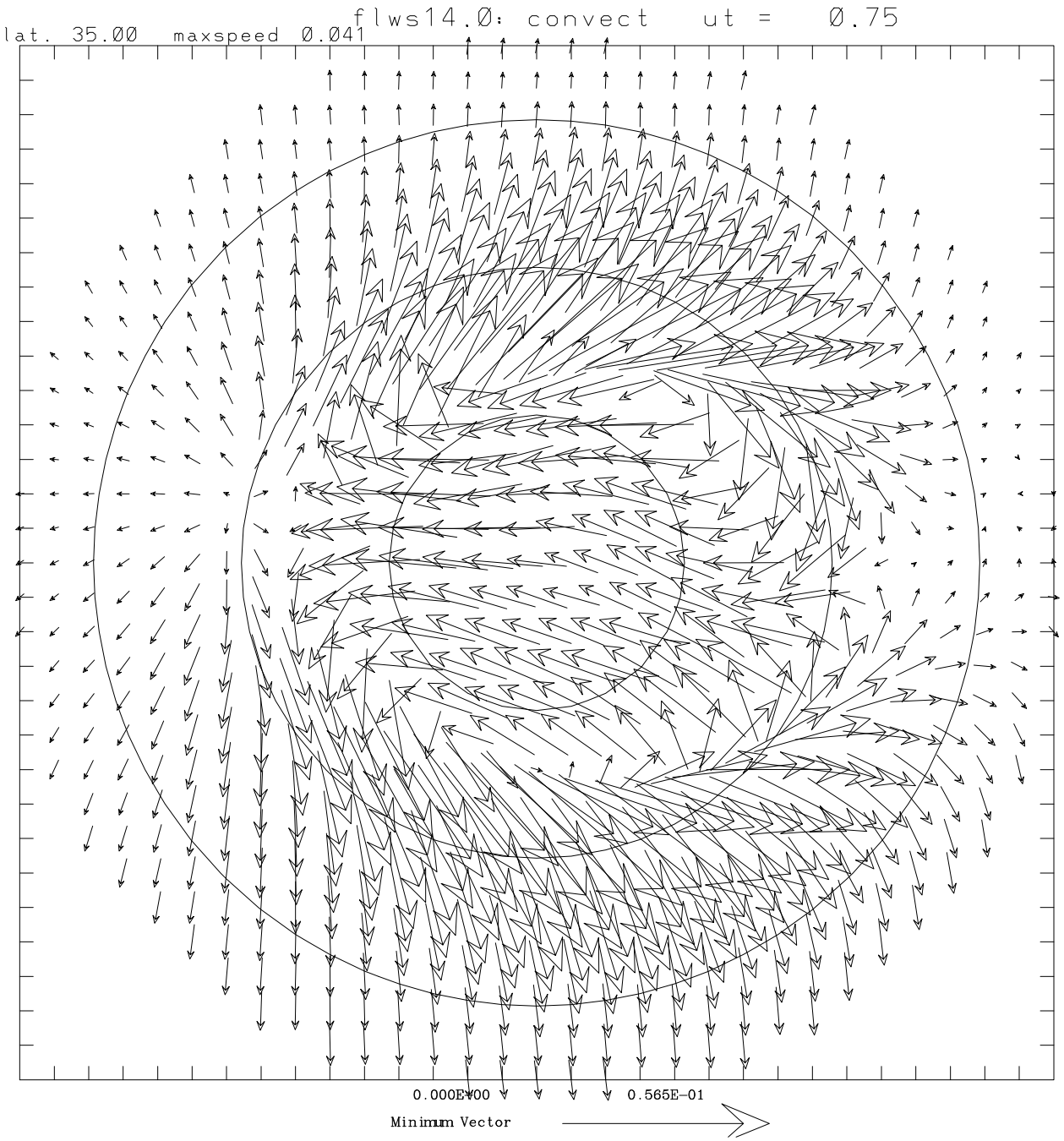
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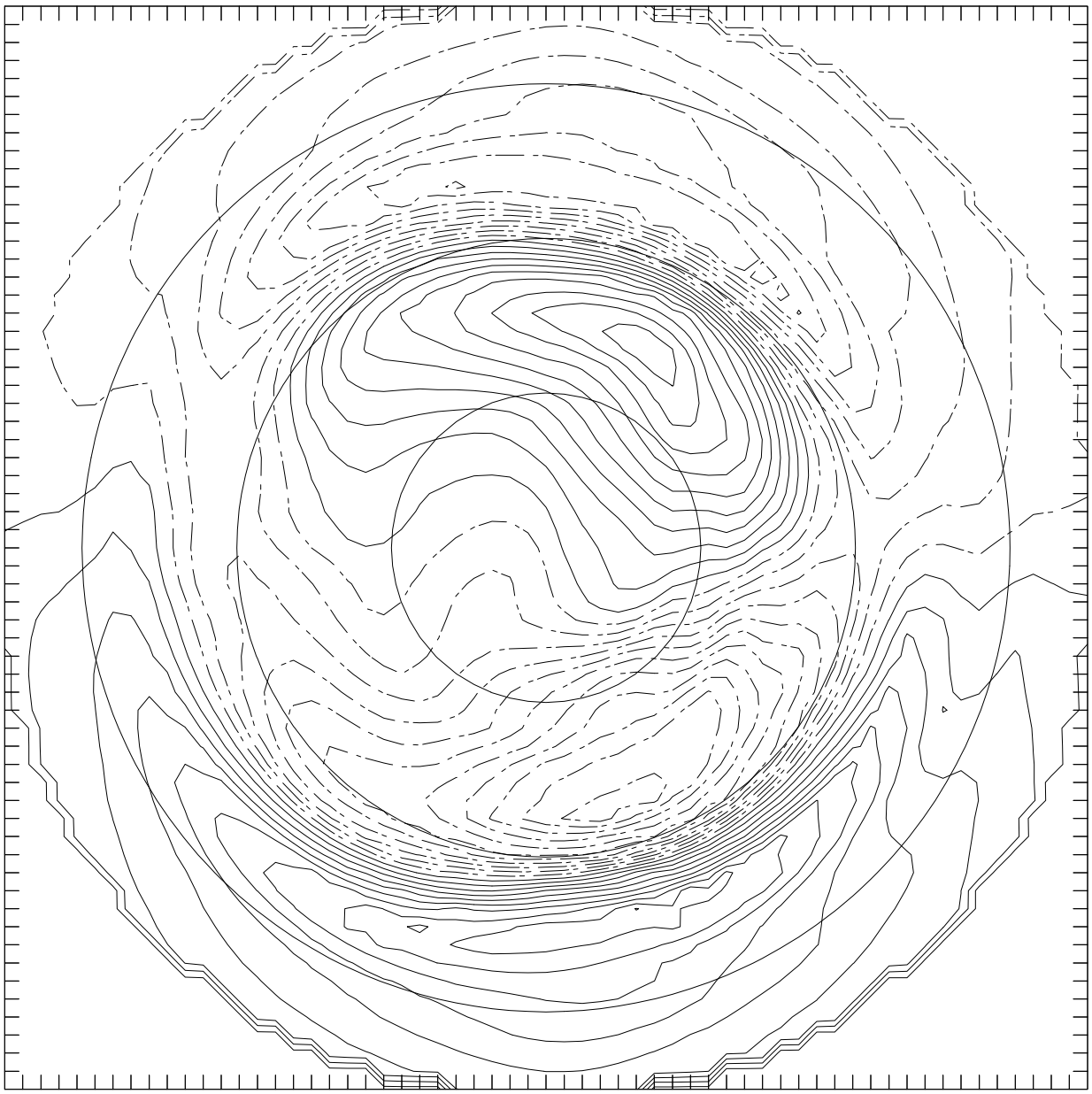

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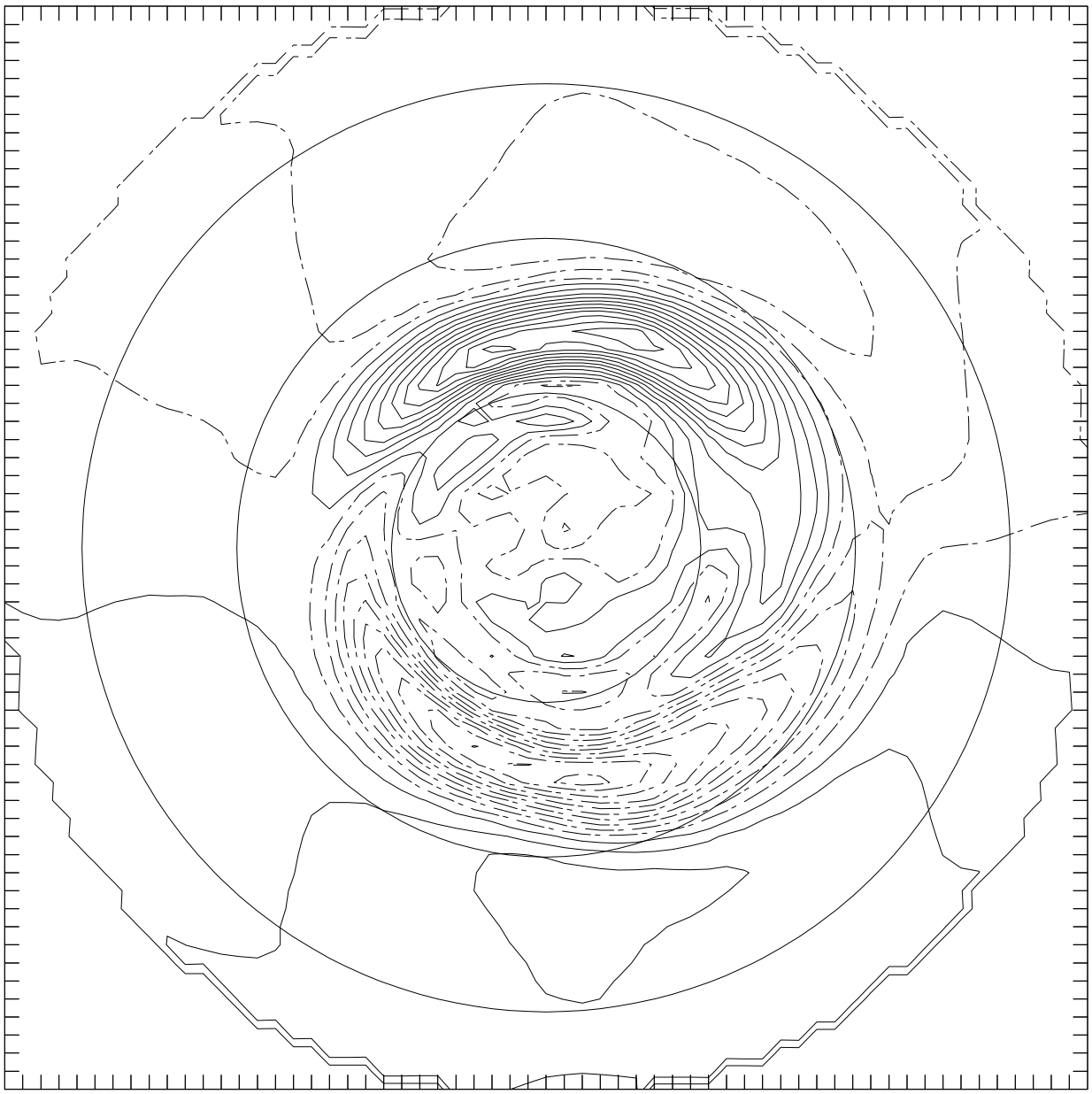

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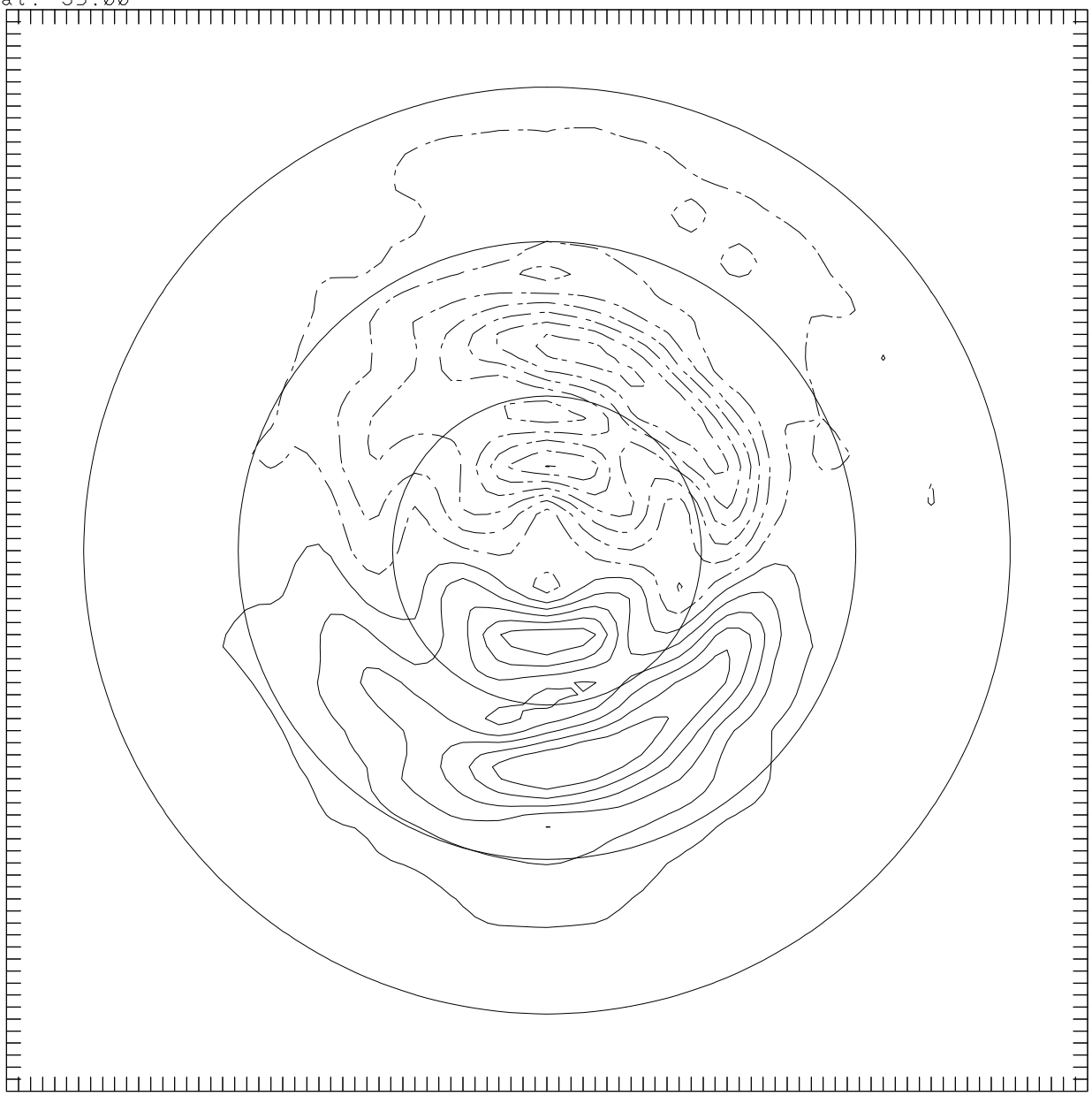

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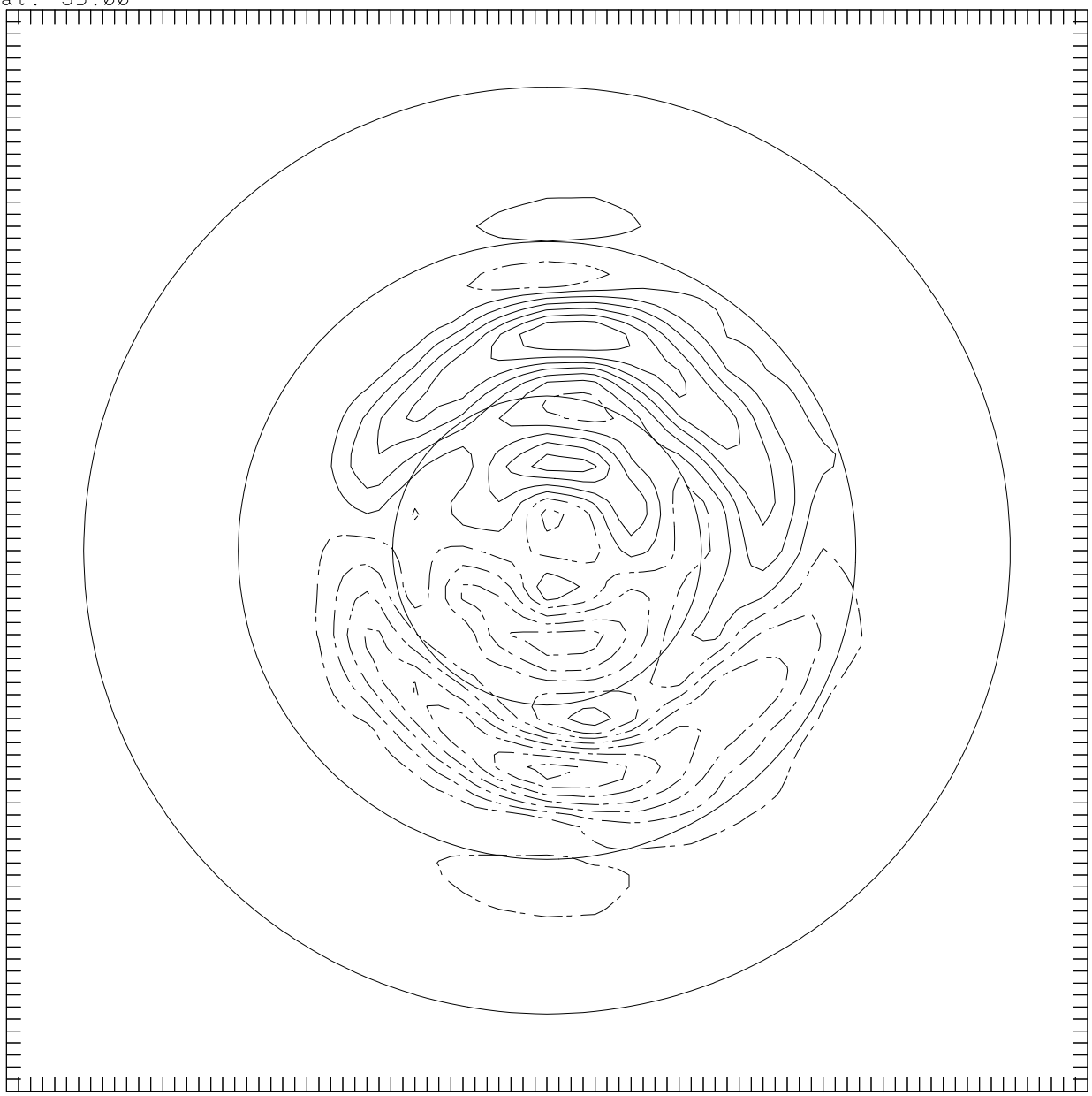

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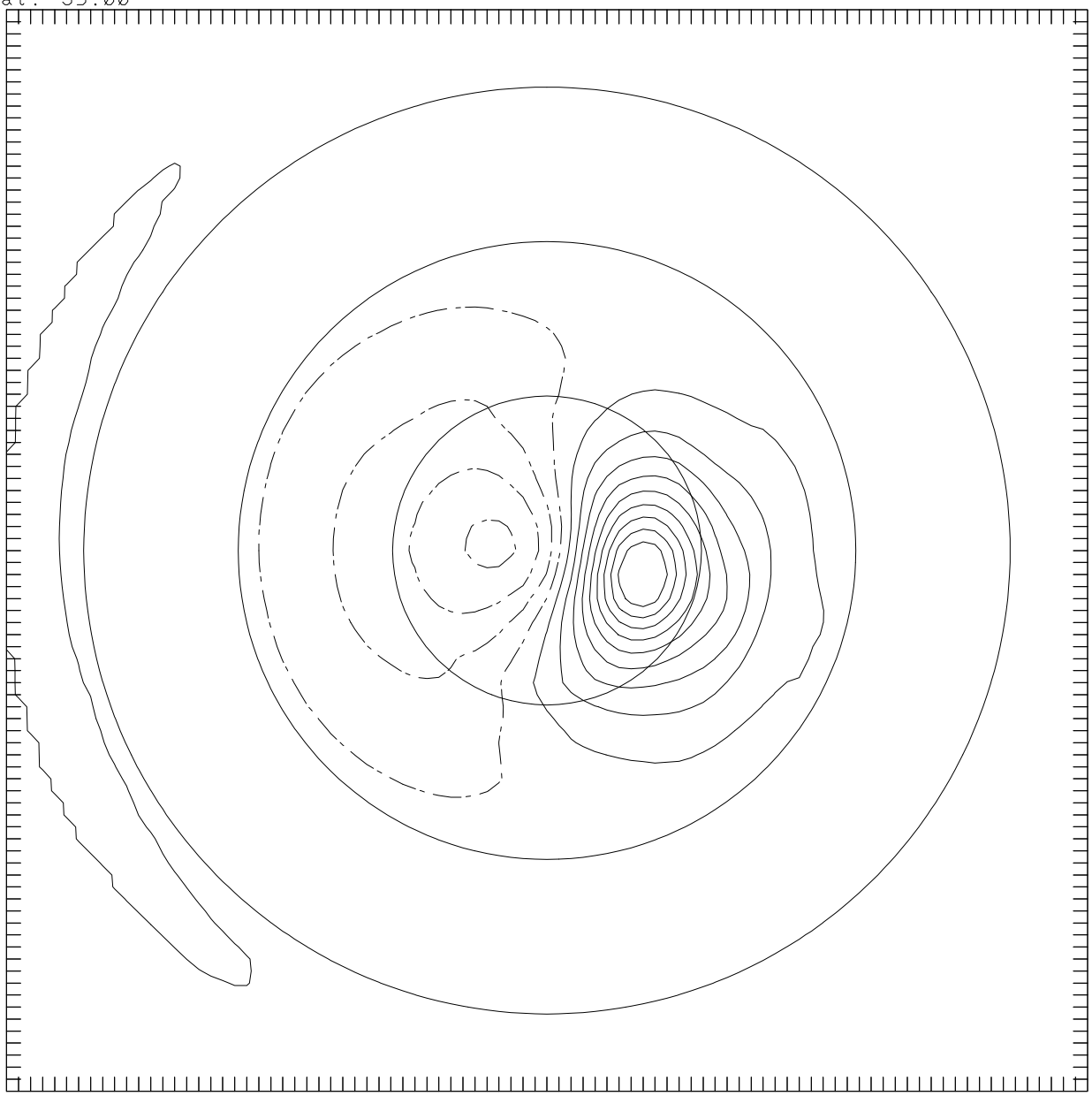
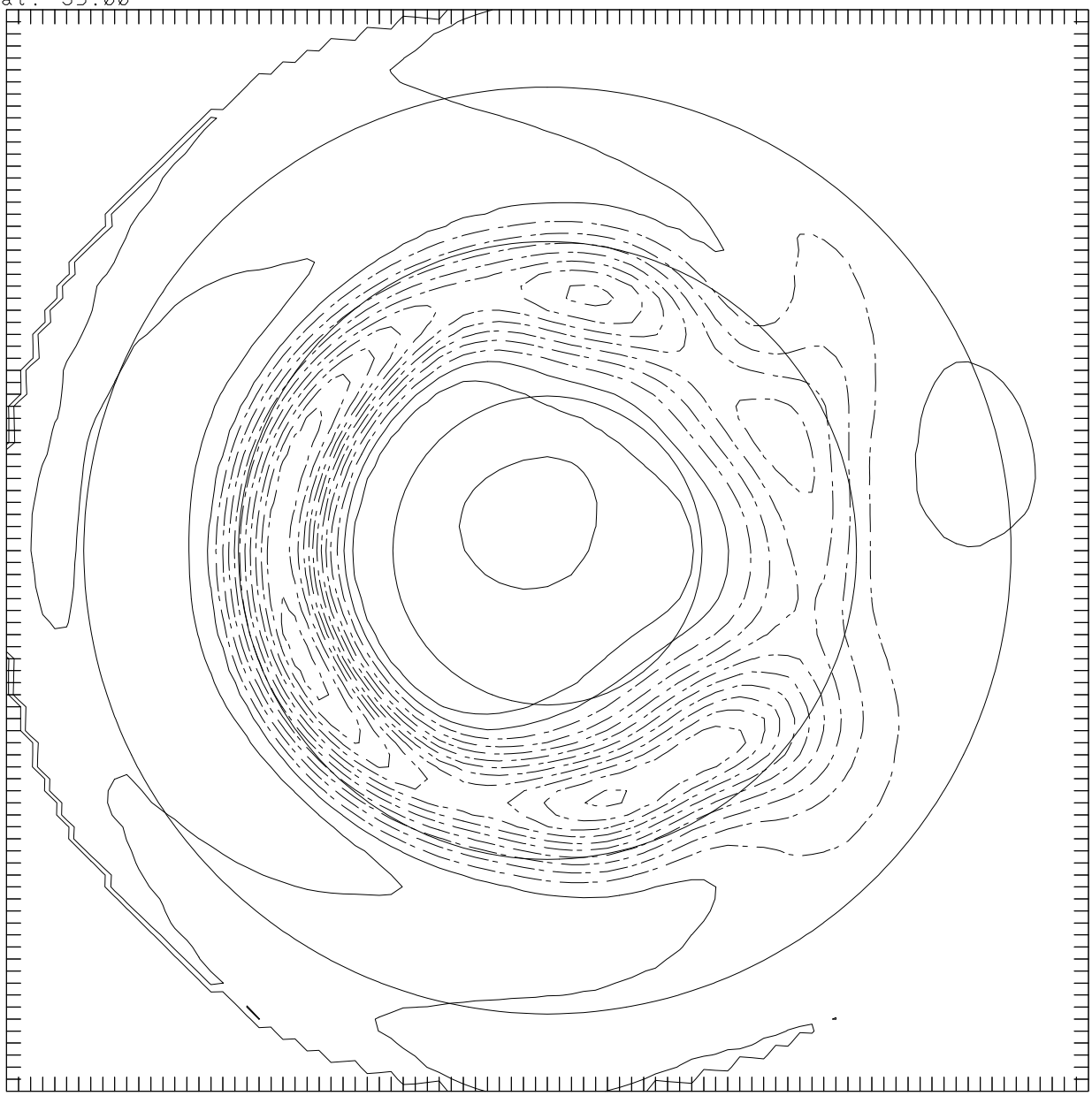
lat. 35.00

qfluxnth: aurora ut = 0.75



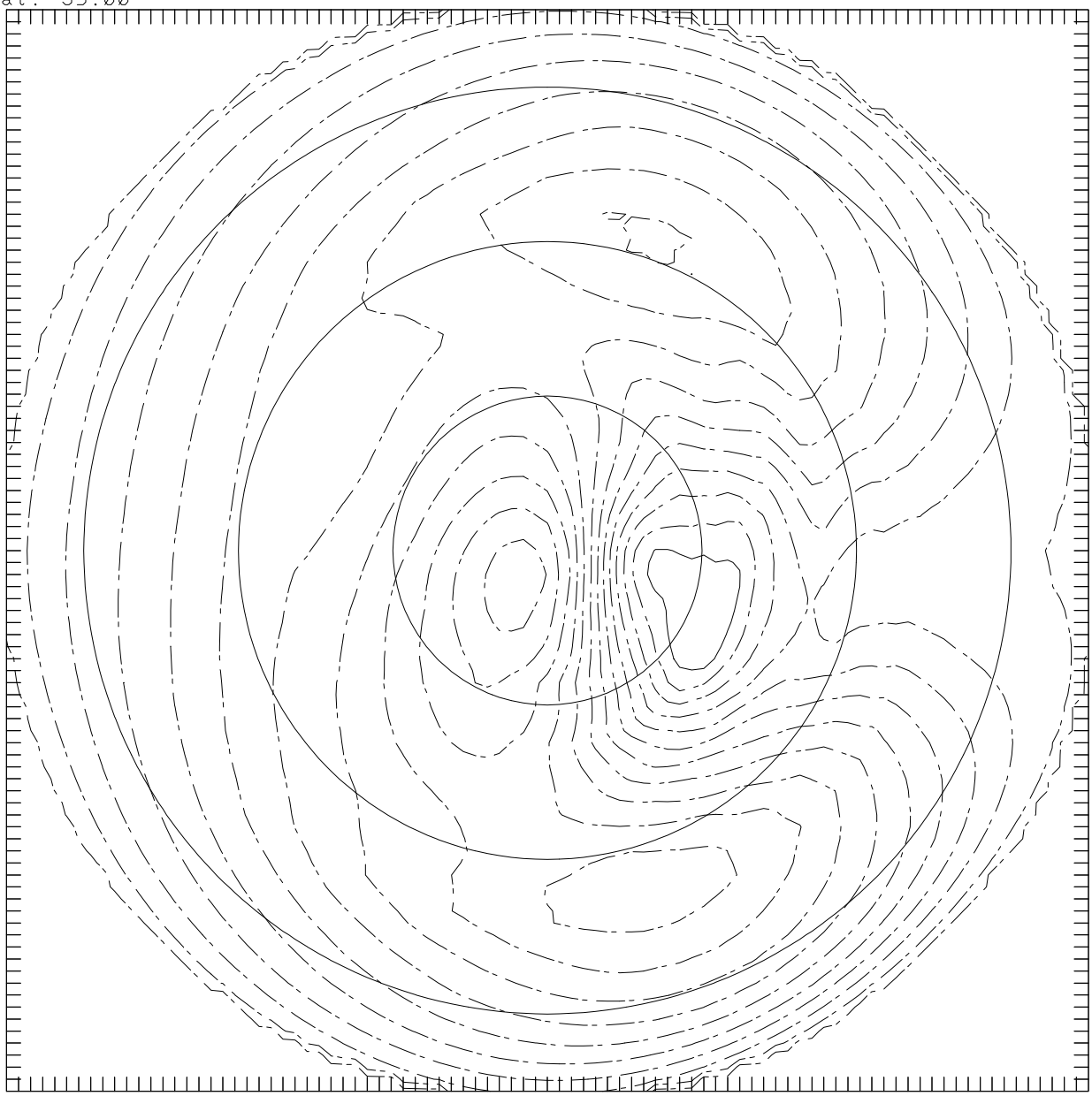
min-0.0667 fmax 0.0152
lat. 35.00

qfluxsth: aurora ut = 0.75



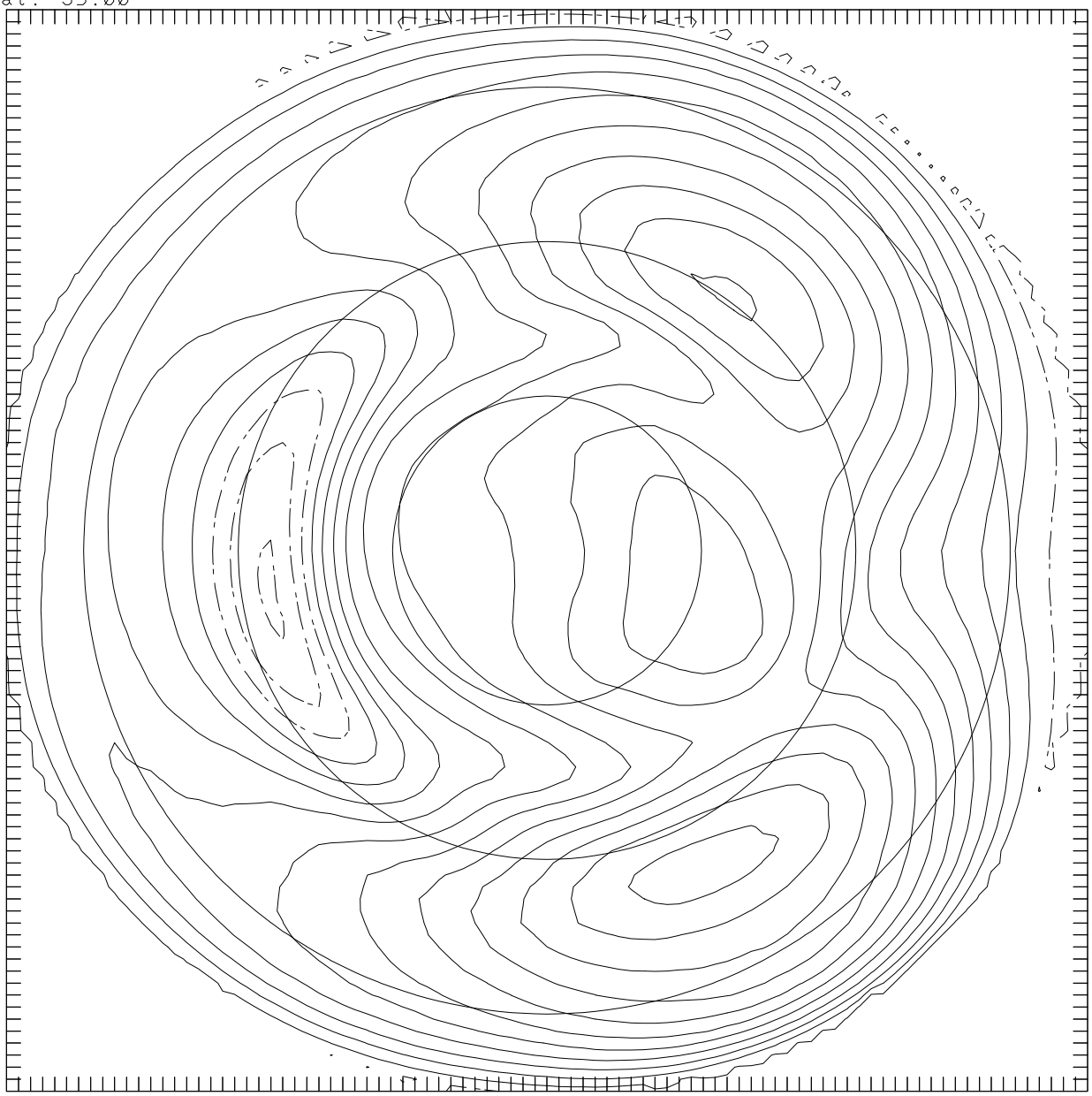
min-0.0629 fmax 0.0084
lat. 35.00

hfluxnth: aurora ut = 0.75



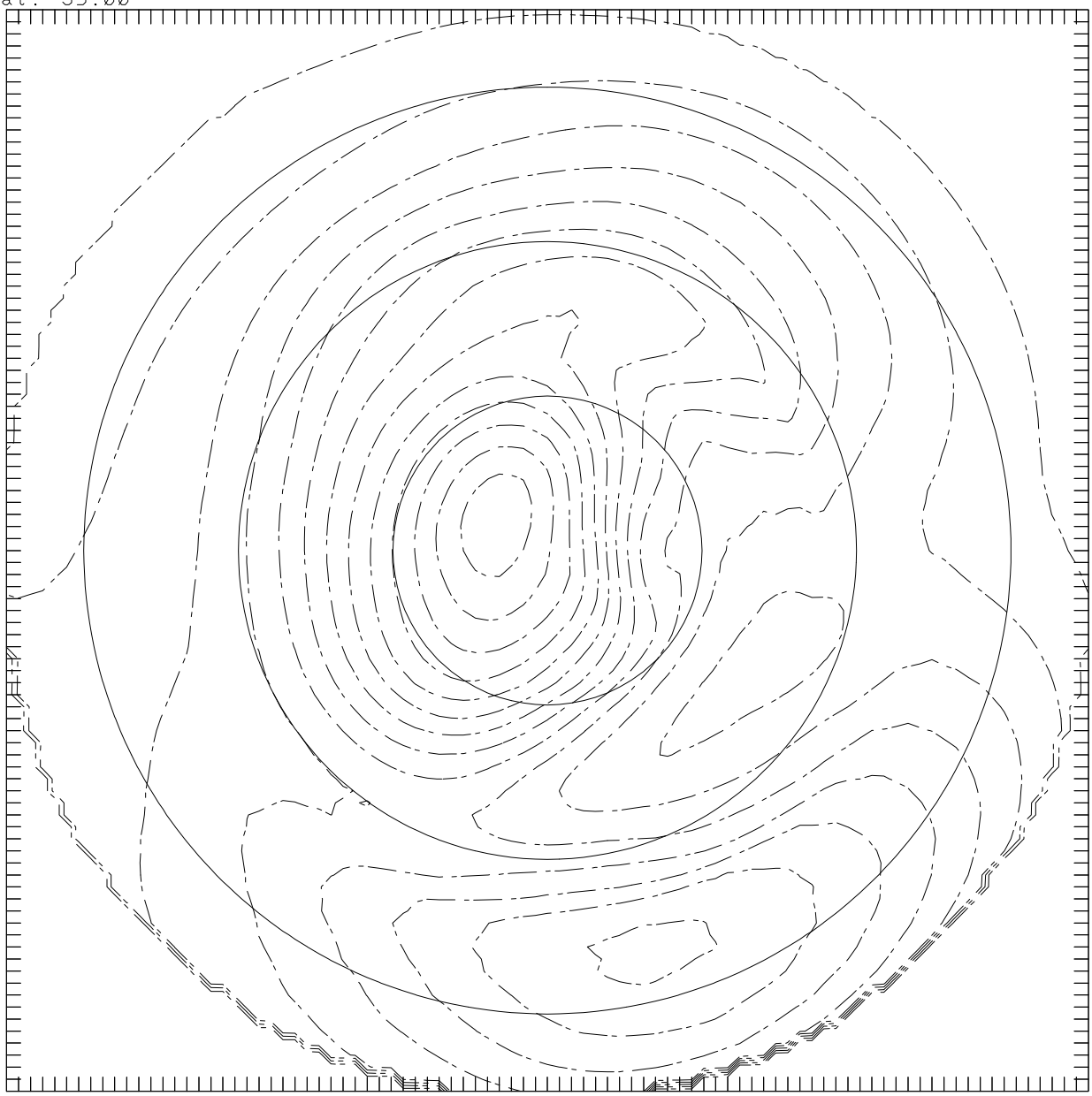
min-0.0098 fmax 0.0344
lat. 35.00

hfluxsth: aurora ut = 0.75



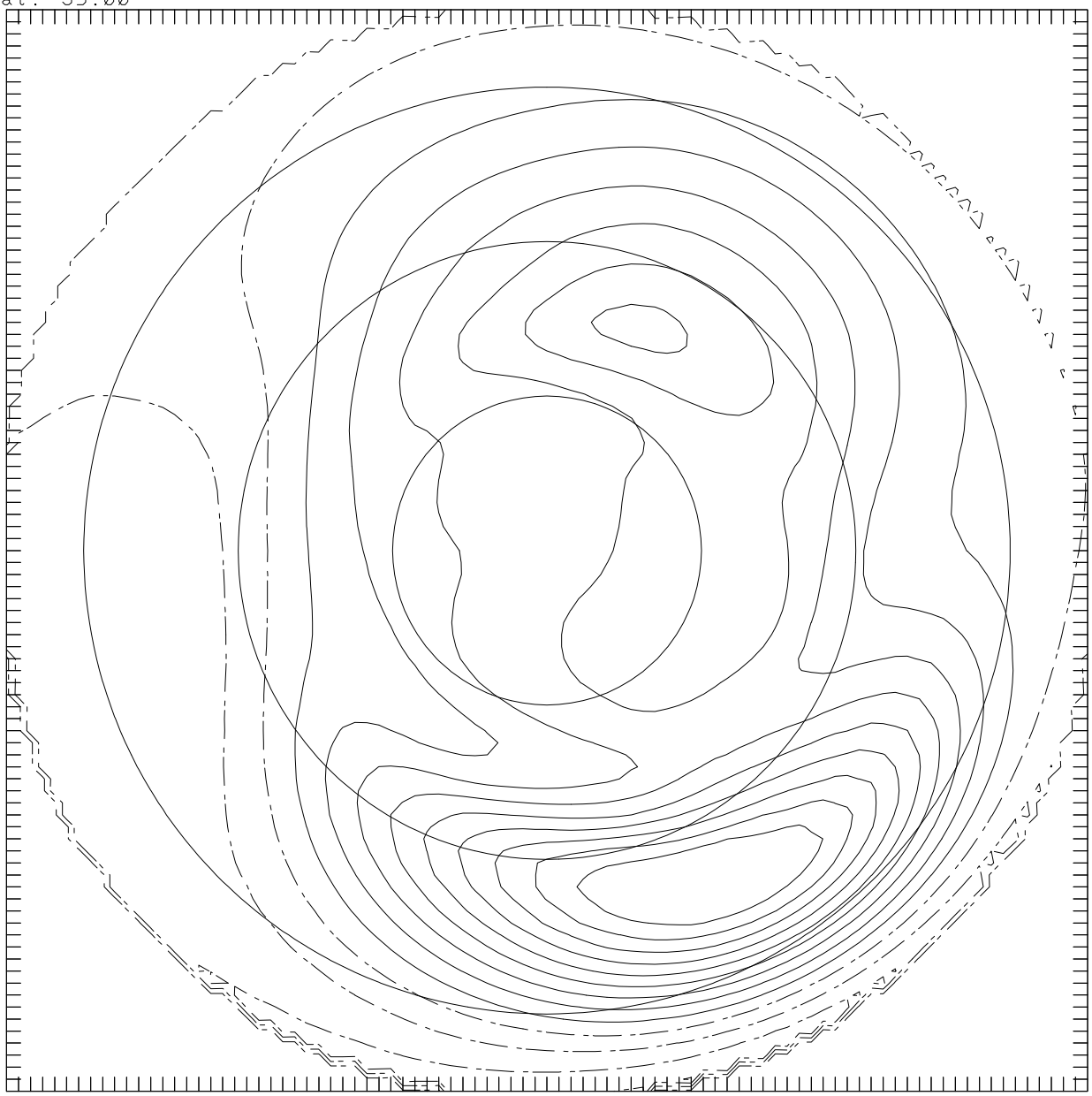
min-0.0536 fmax 0.0000
lat. 35.00

ofluxnth: aurora ut = 0.75



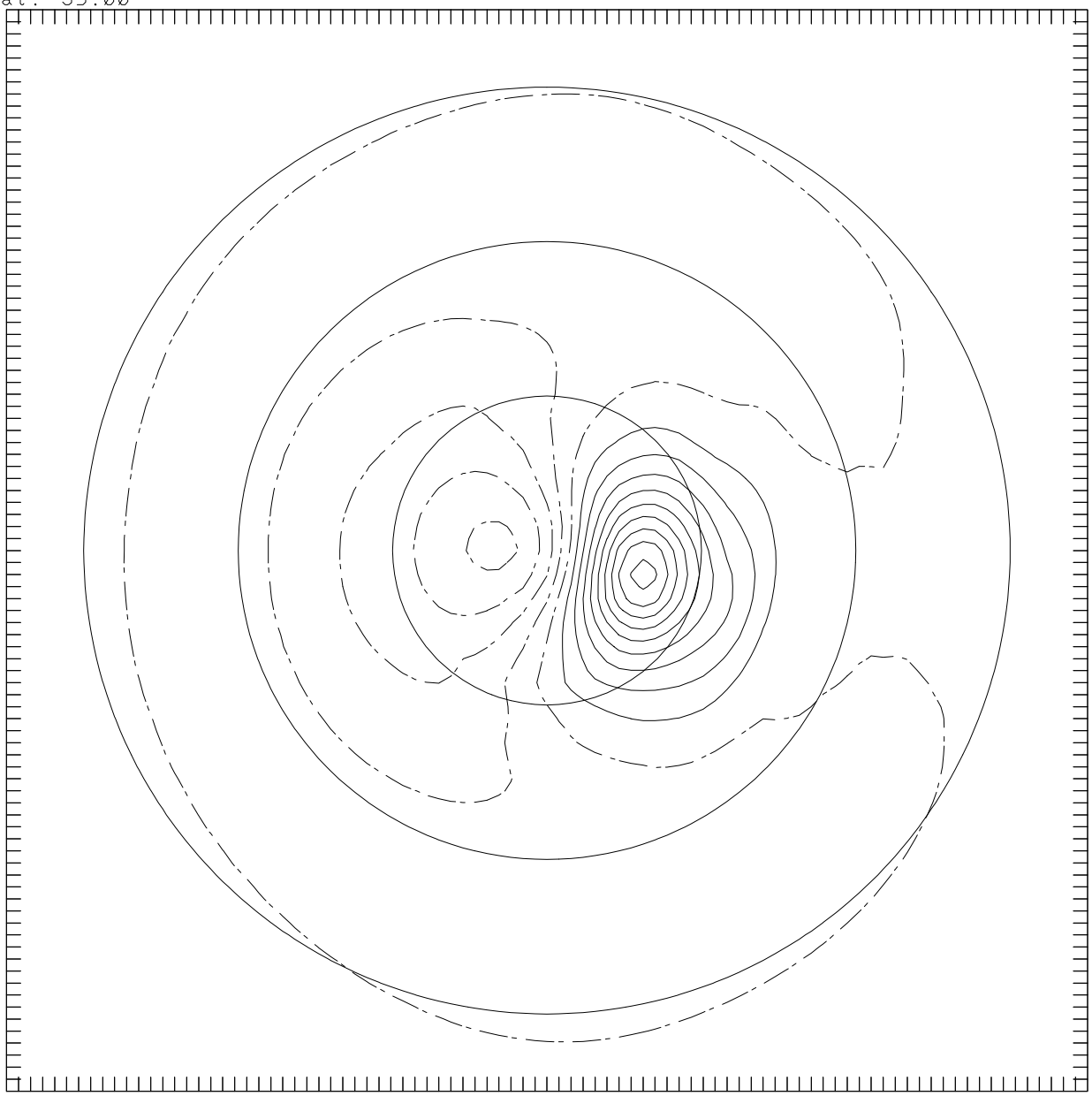
min-0.0172 fmax 0.0508
lat. 35.00

ofluxsth: aurora ut = 0.75



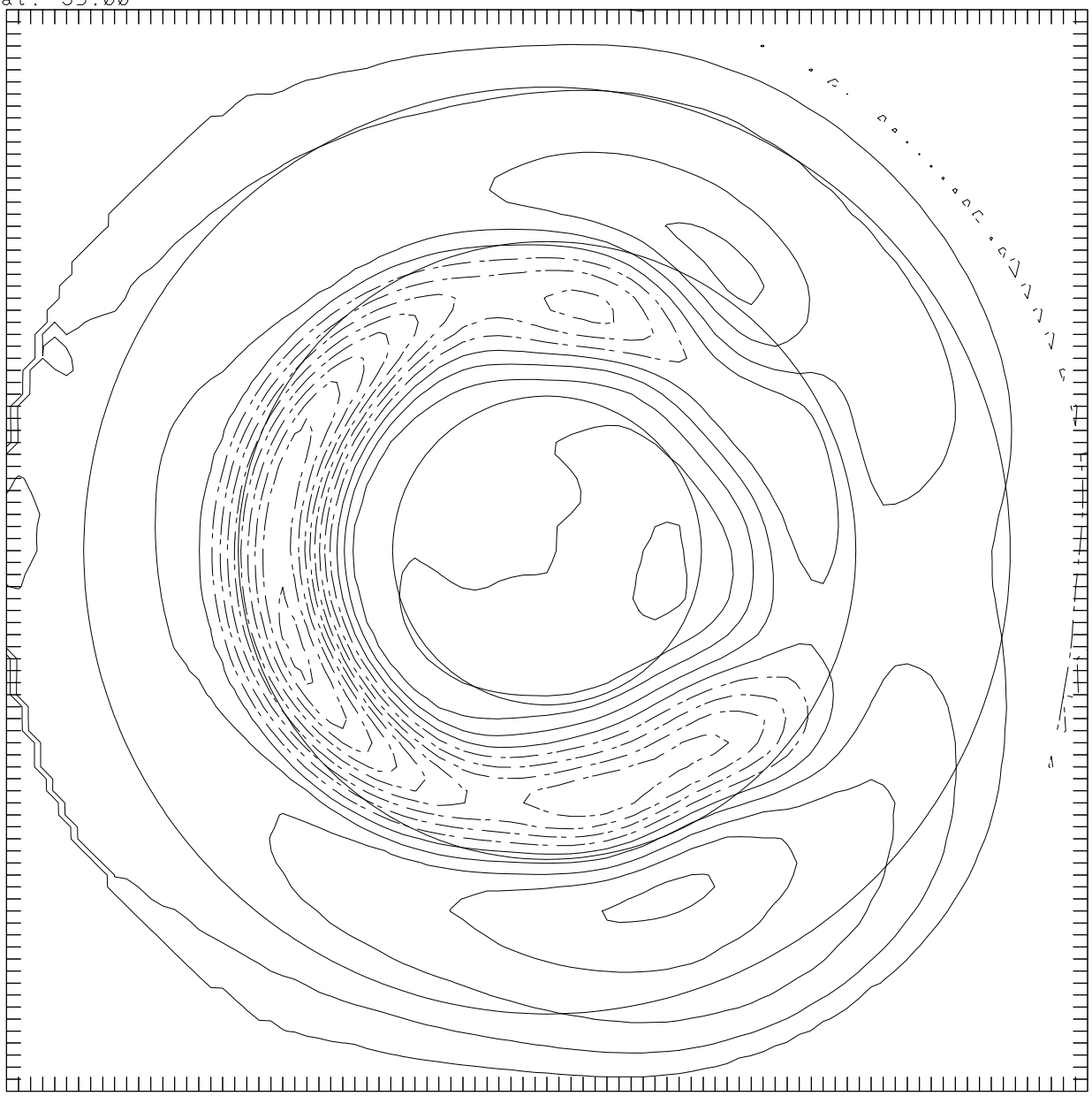
min-0.5478 fmax 1.1424
lat. 35.00

efluxnth: aurora ut = 0.75



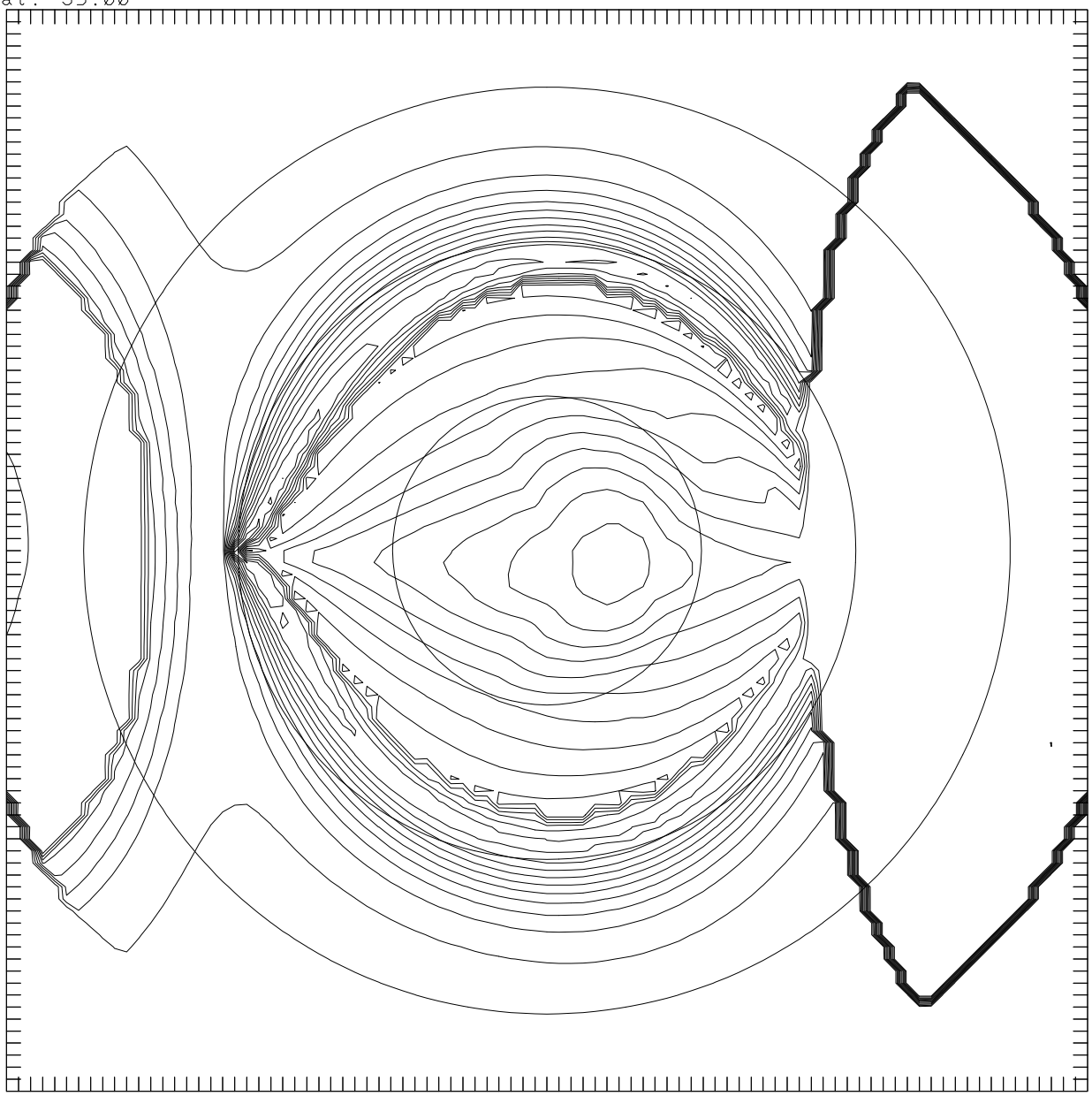
min-0.0745 fmax 0.0408
lat. 35.00

efluxsth: aurora ut = 0.75



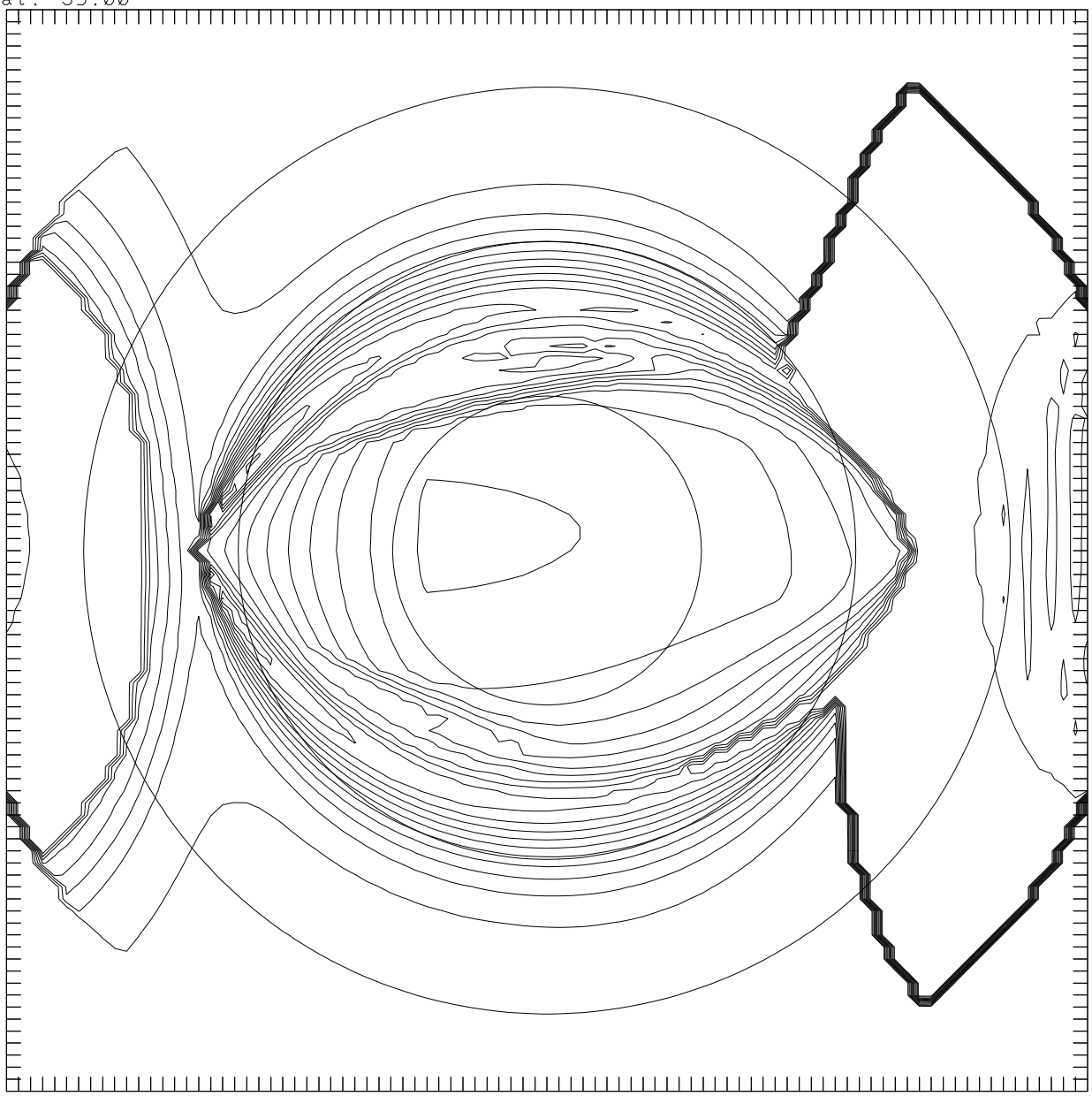
min 0.0000 0.0172
lat. 35.00

itempnth: intensity ut = 0.75



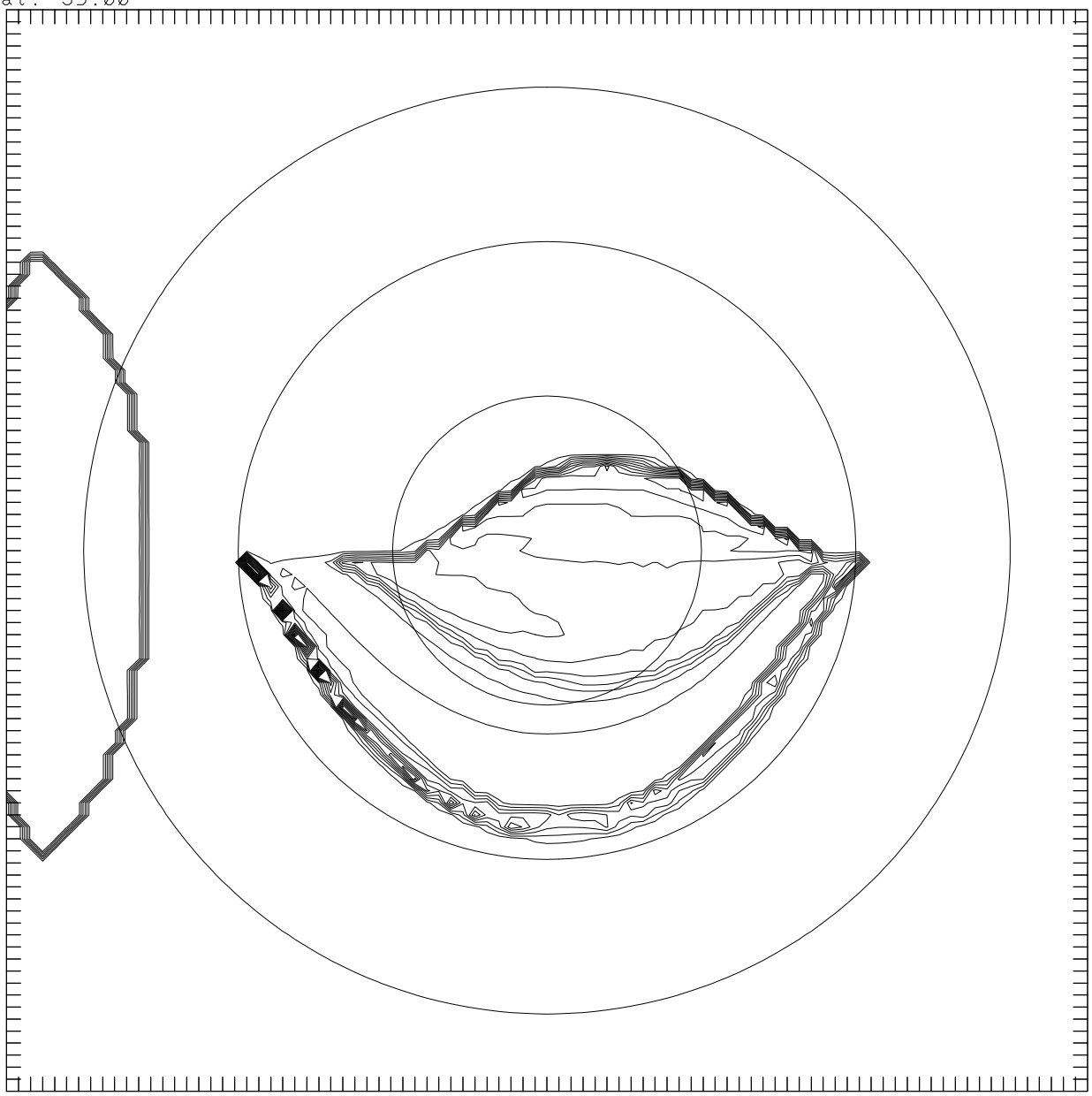
min 0.0000 0.0172
lat. 35.00

itempsth: intensity ut = 0.75



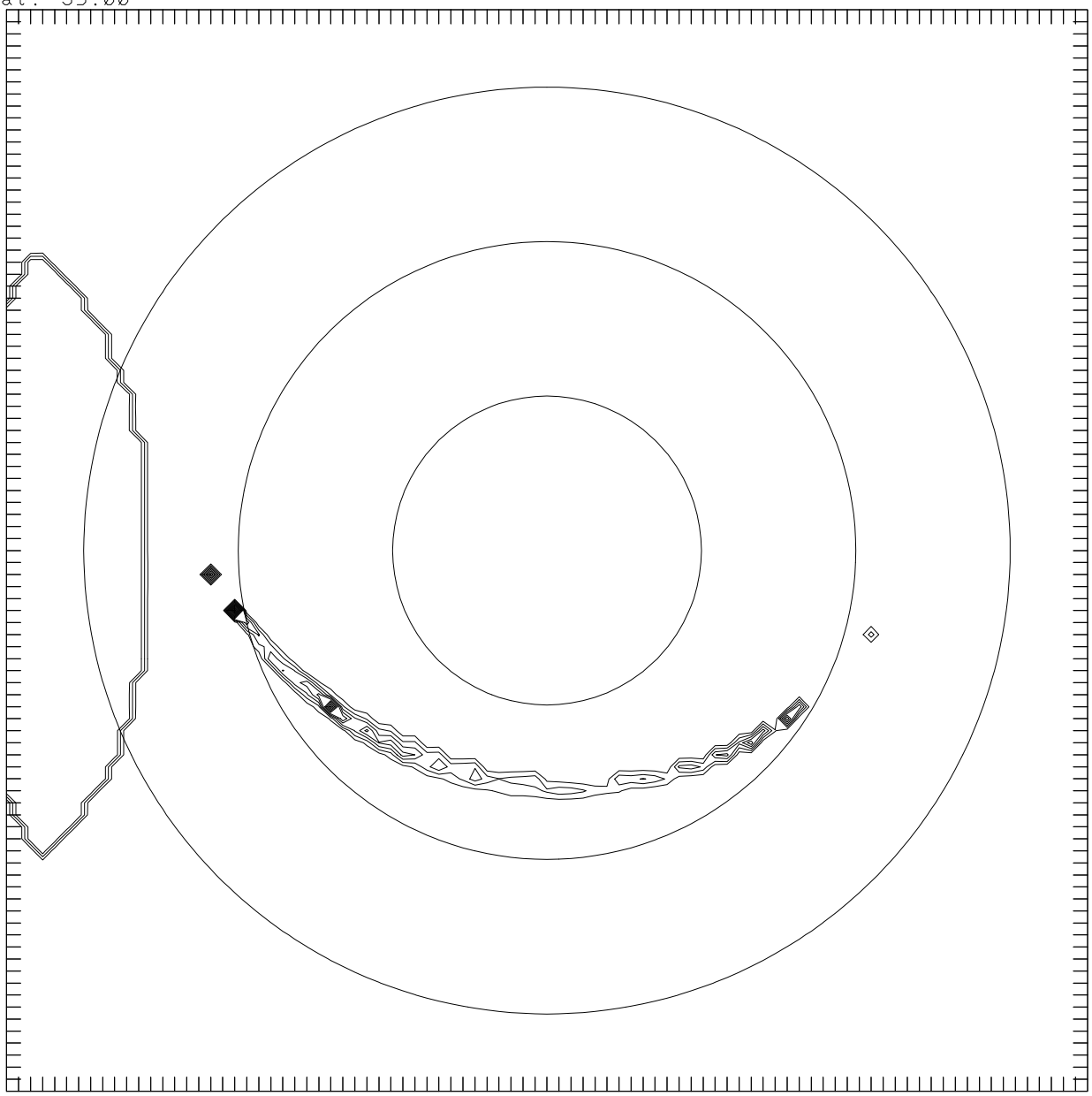
min 0.0000 0.6453
lat. 35.00

otempnth: intensity ut = 0.75



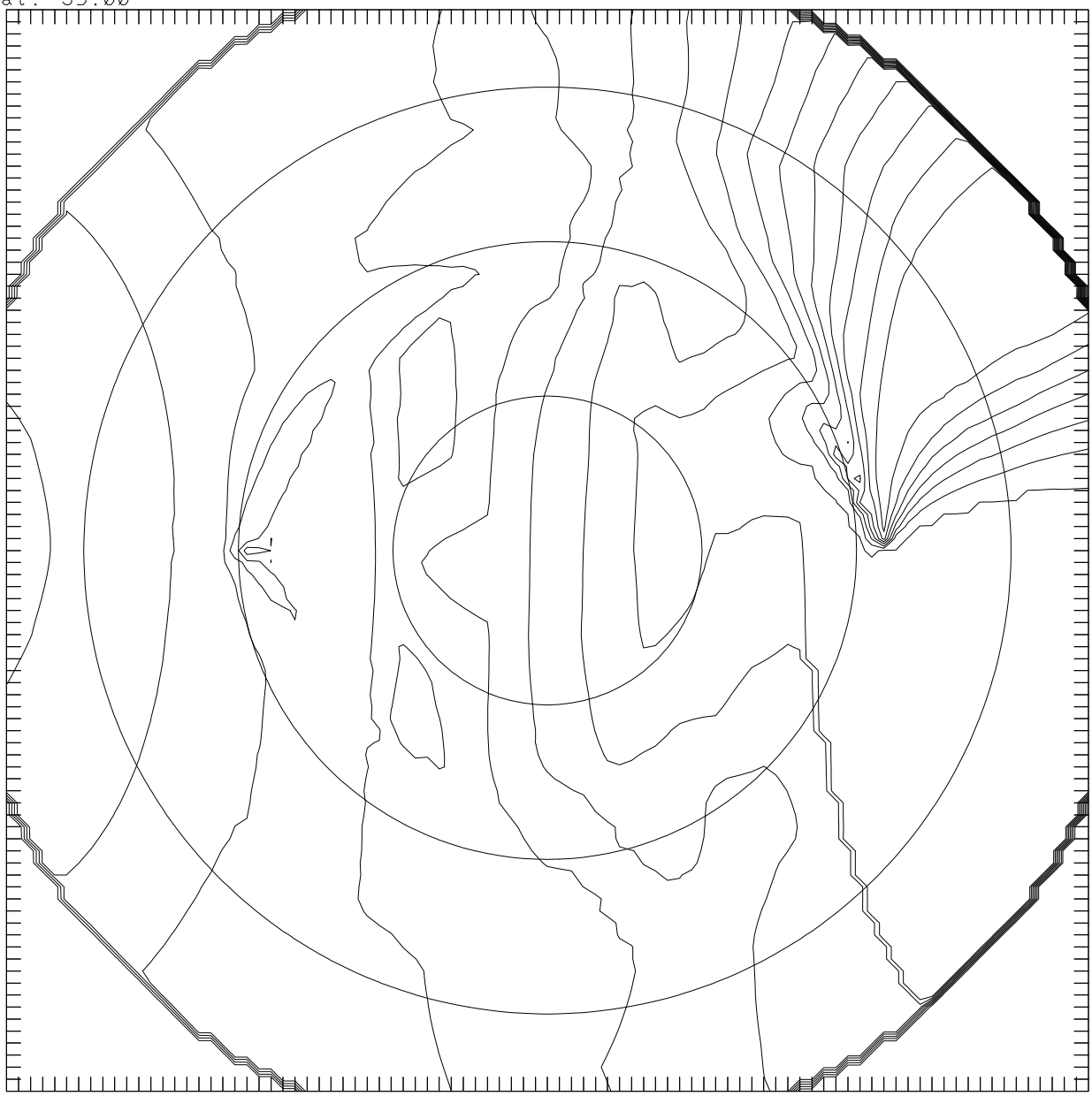
min 0.0000 1.0648
lat. 35.00

otempsth: intensity ut = 0.75



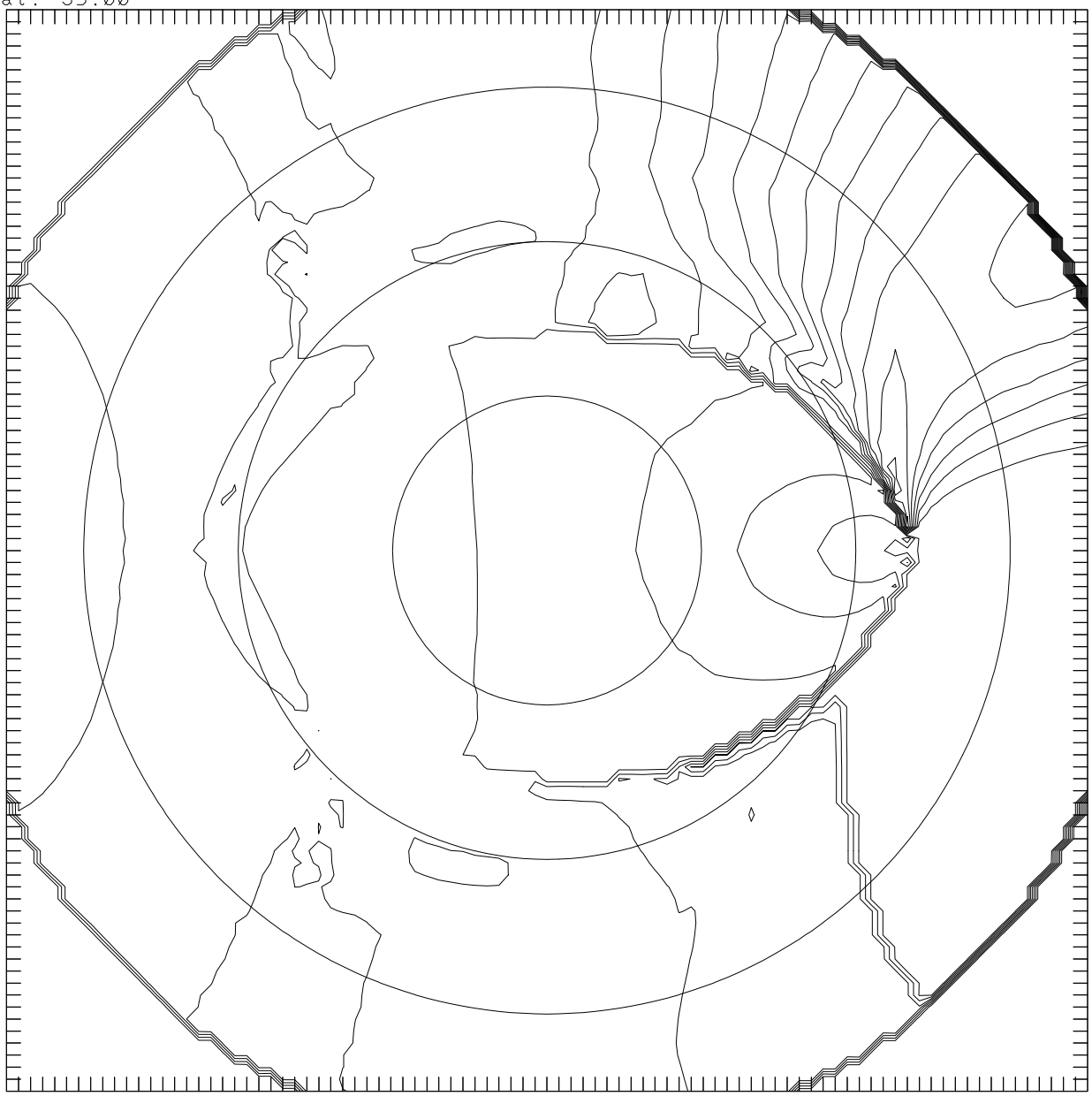
min 0.0000 0.0519
lat. 35.00

qtempnth: intensity ut = 0.75



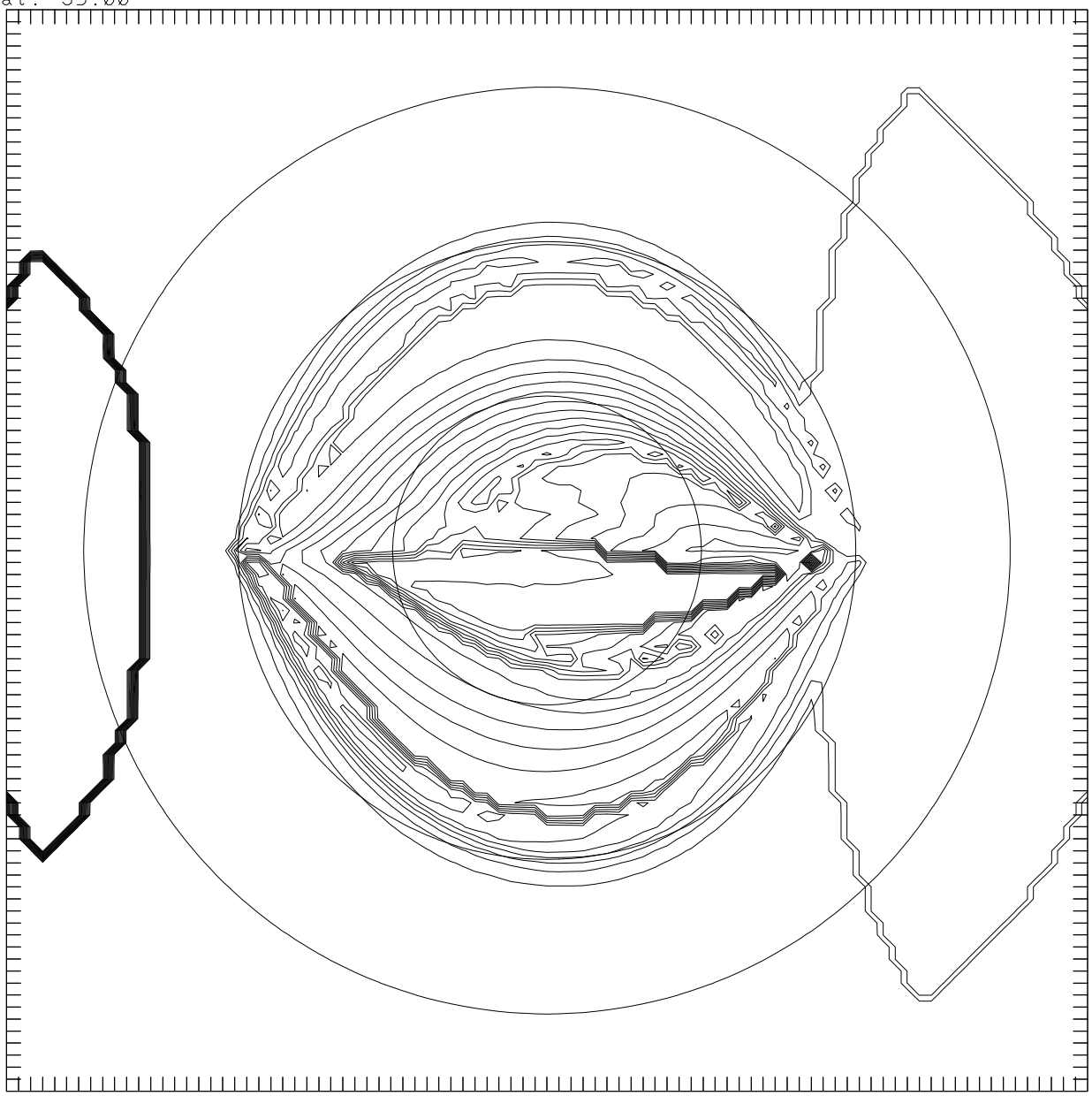
min 0.0000 0.0585
lat. 35.00

qtempsth: intensity ut = 0.75



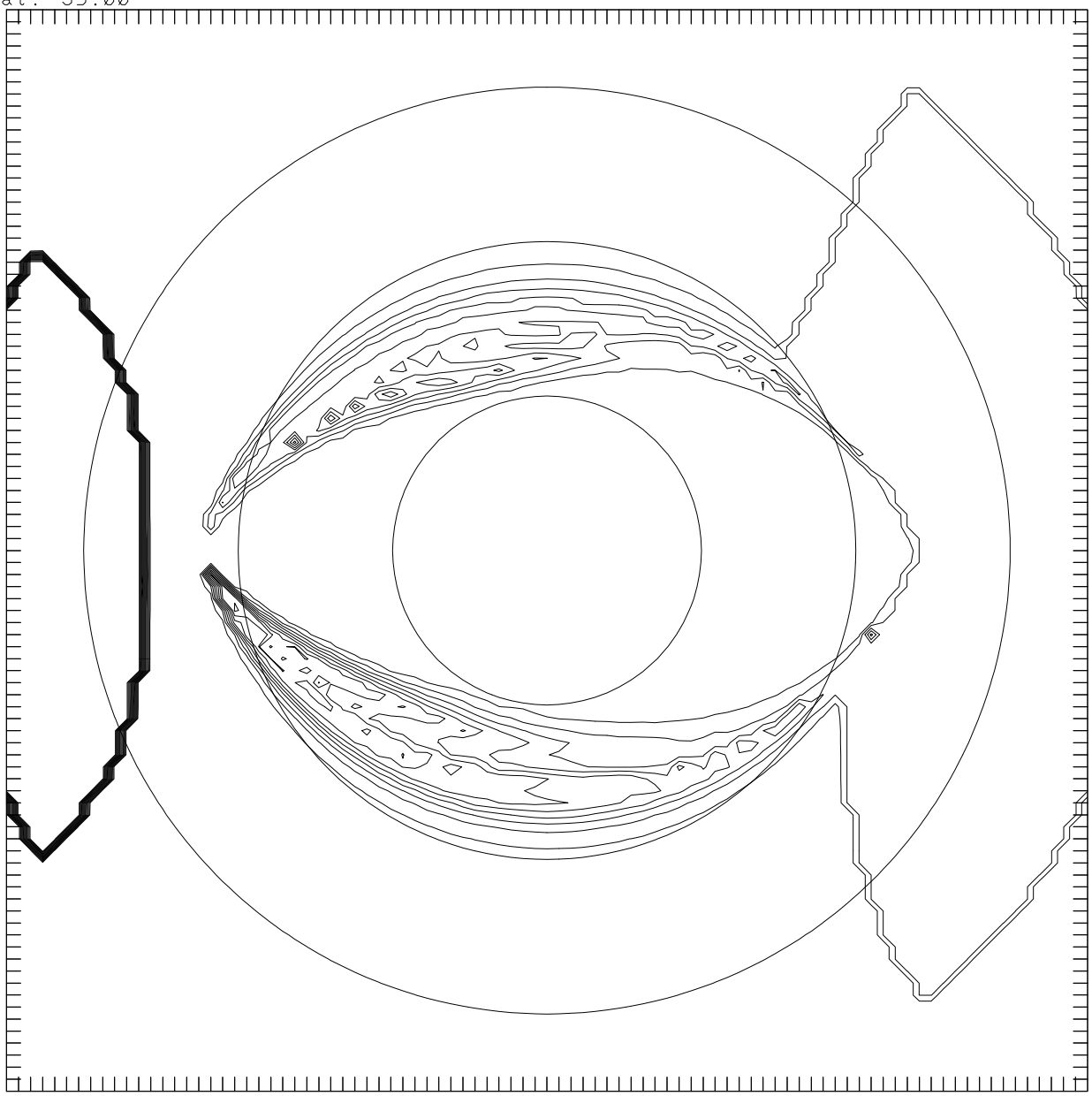
min 0.0000 0.0125
lat. 35.00

htempnth: intensity ut = 0.75



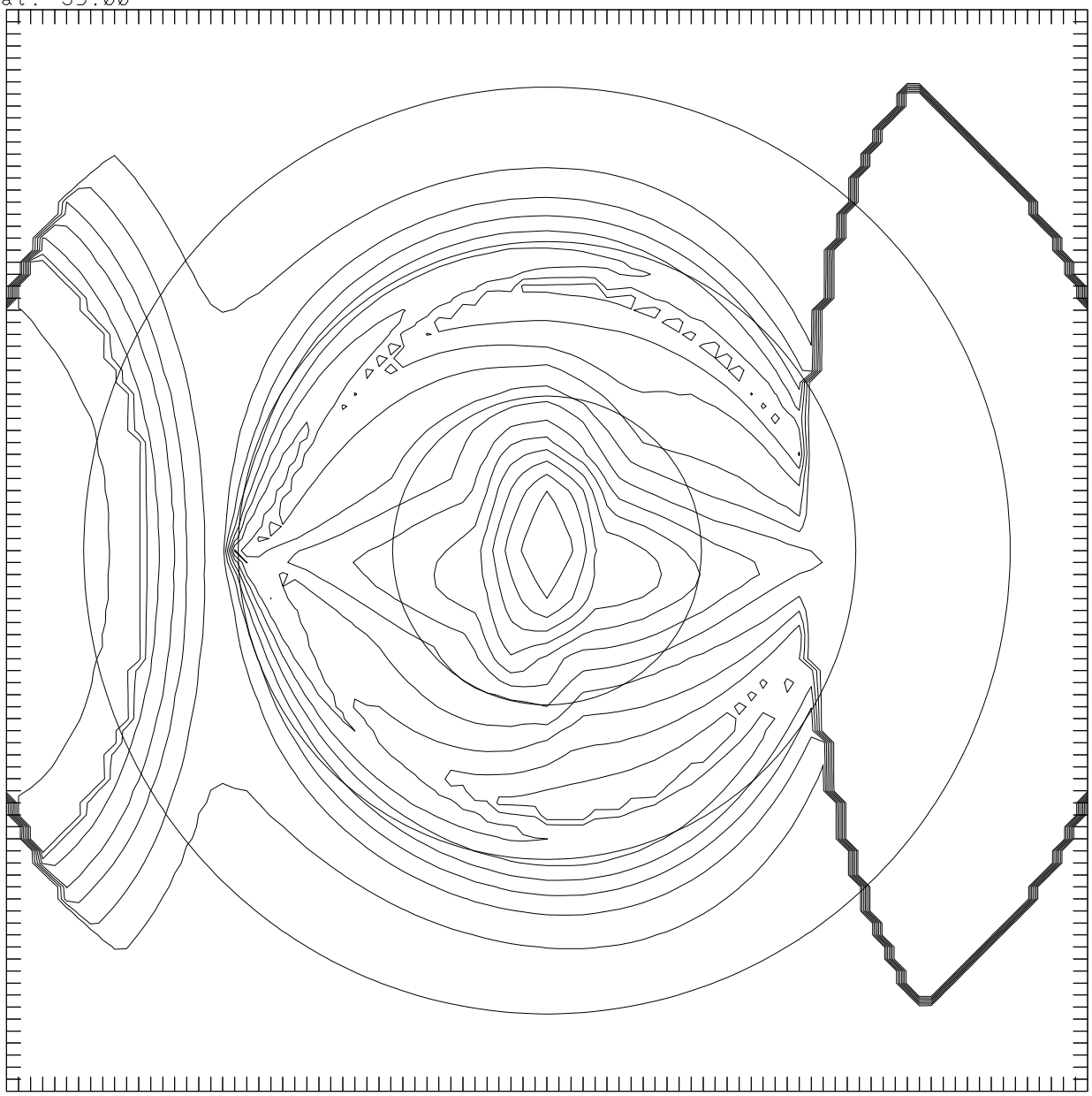
min 0.0000 0.0125
lat. 35.00

htempsth: intensity ut = 0.75



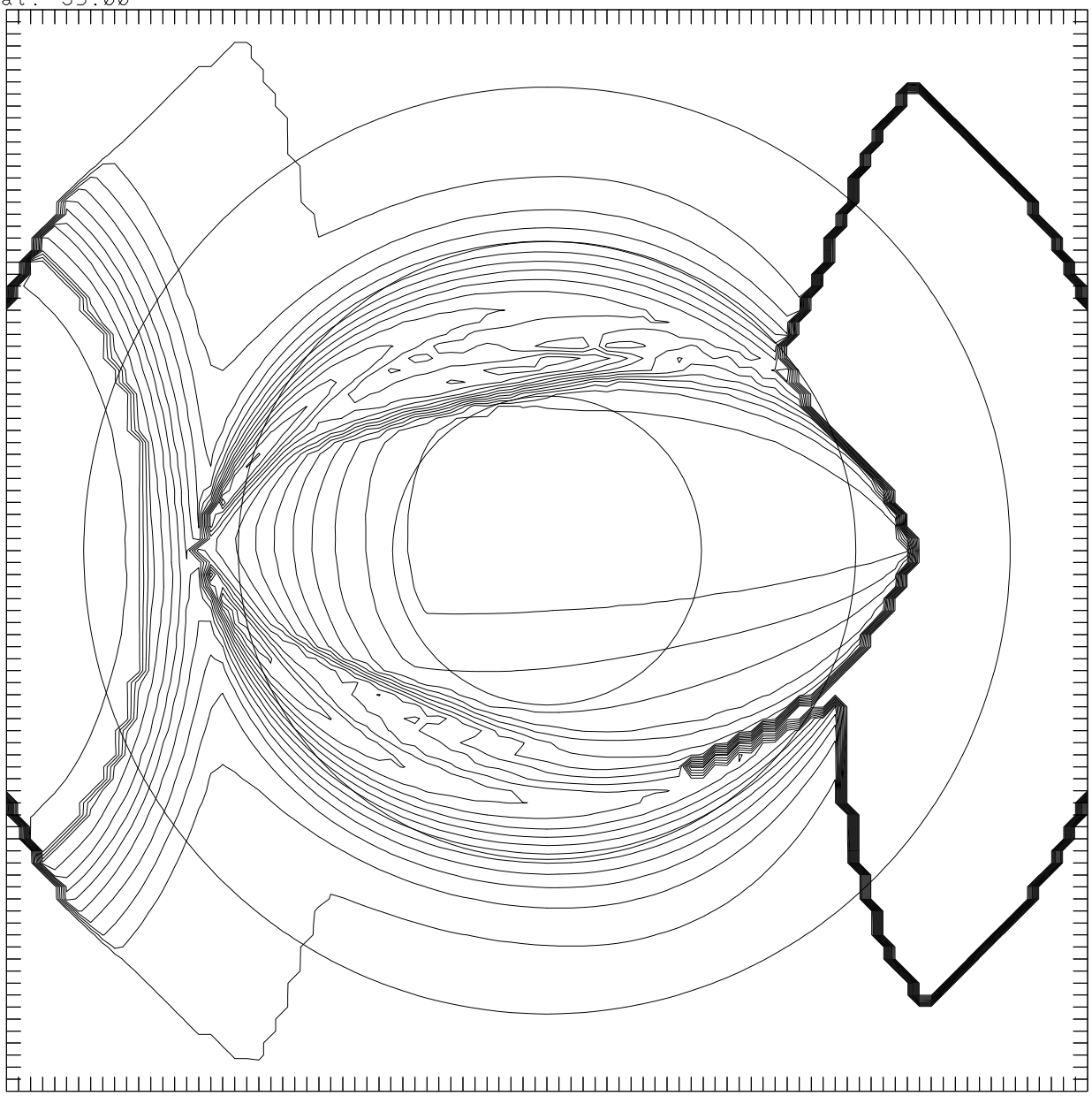
min 0.0000 0.0054
lat. 35.00

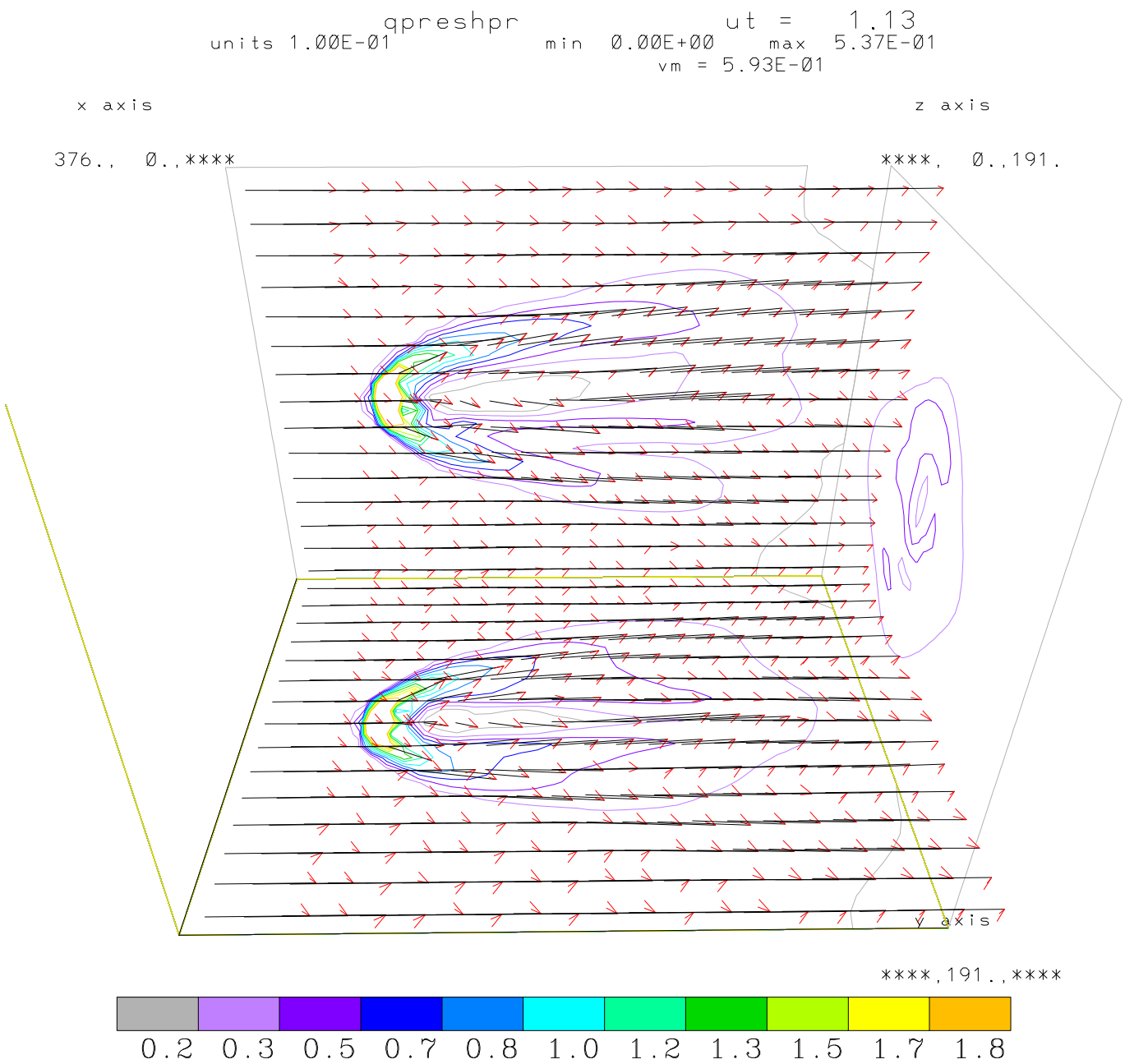
etempnth: intensity ut = 0.75

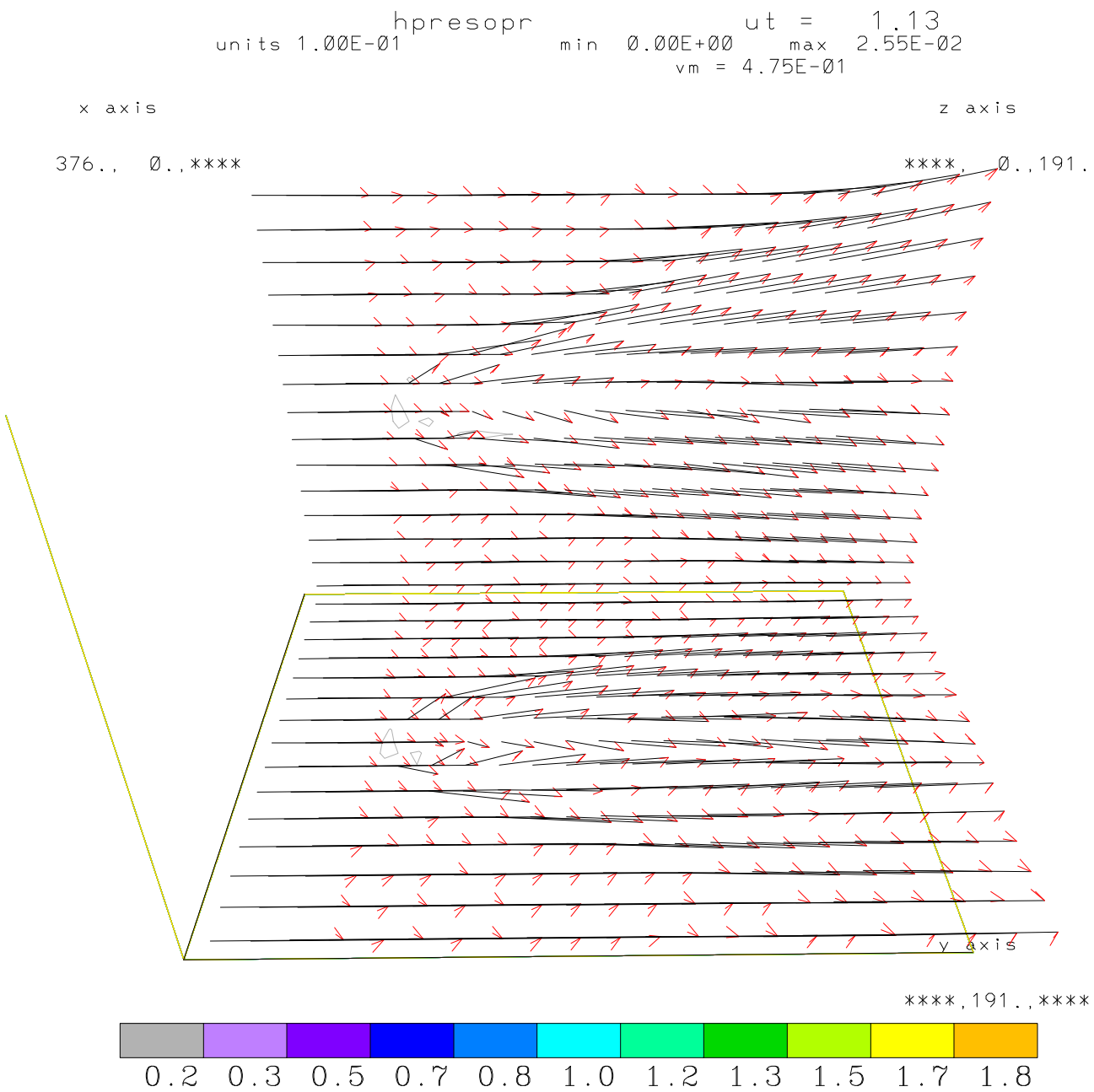


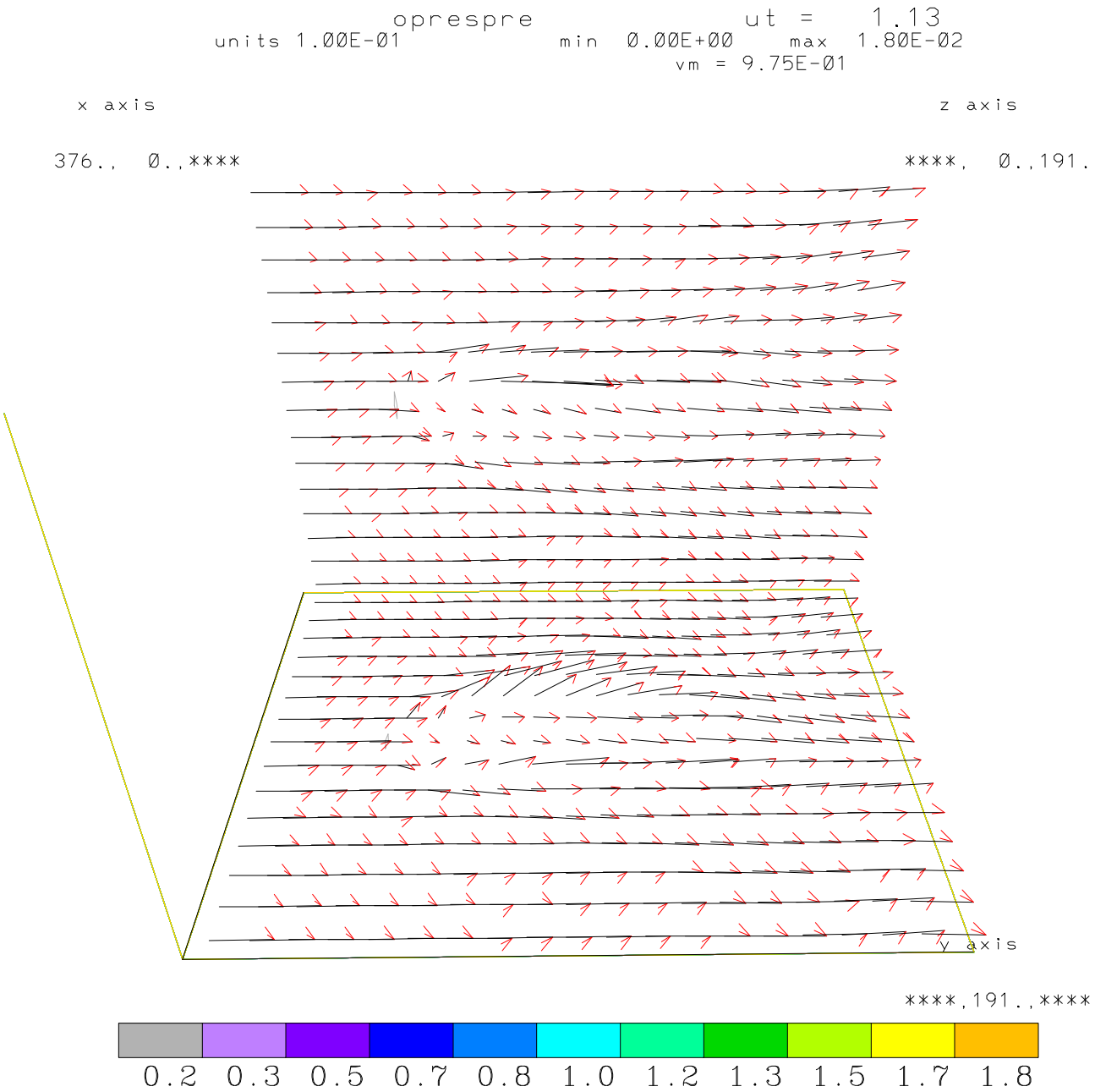
min 0.0000 0.0029
lat. 35.00

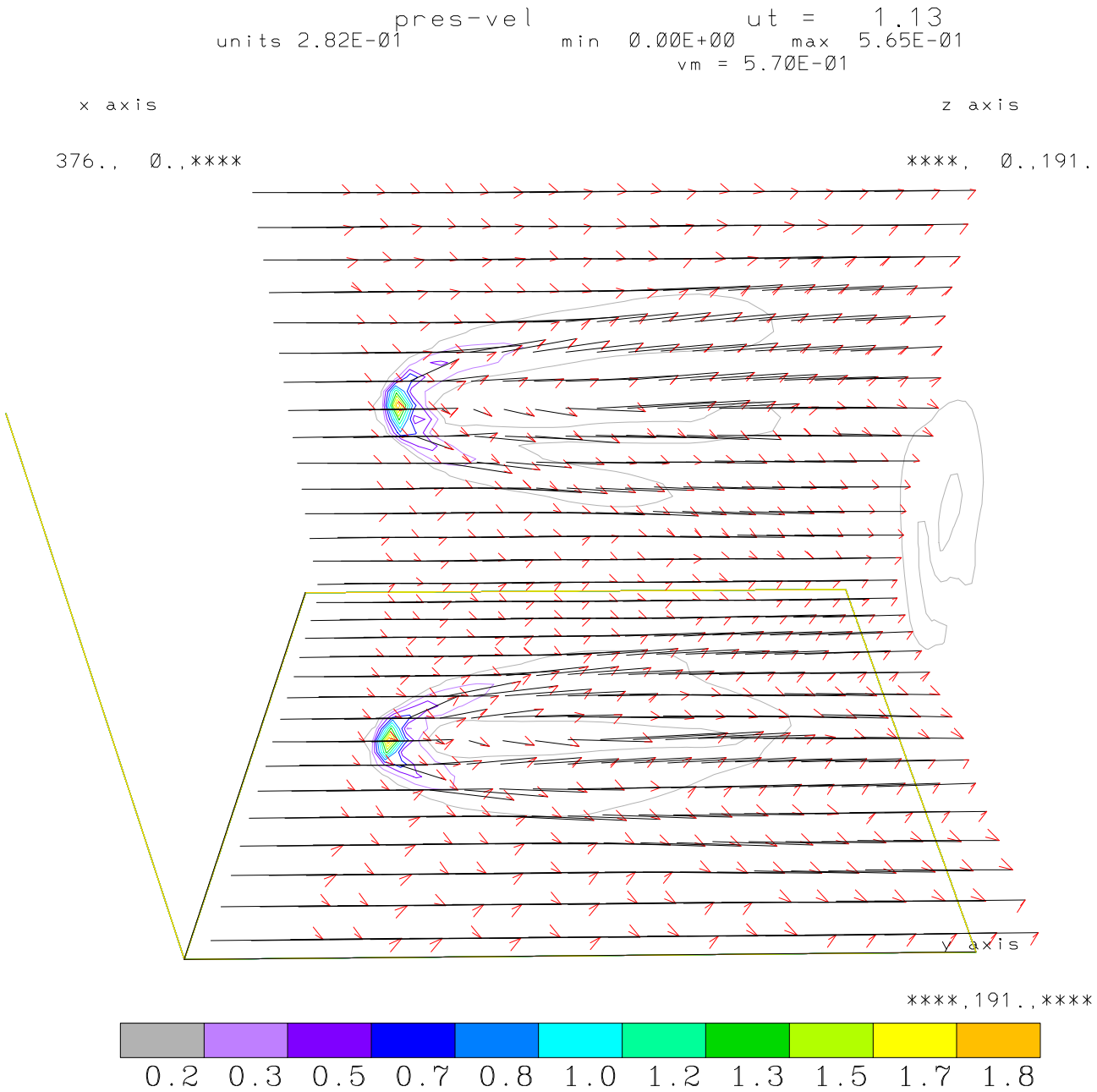
etempsth: intensity ut = 0.75

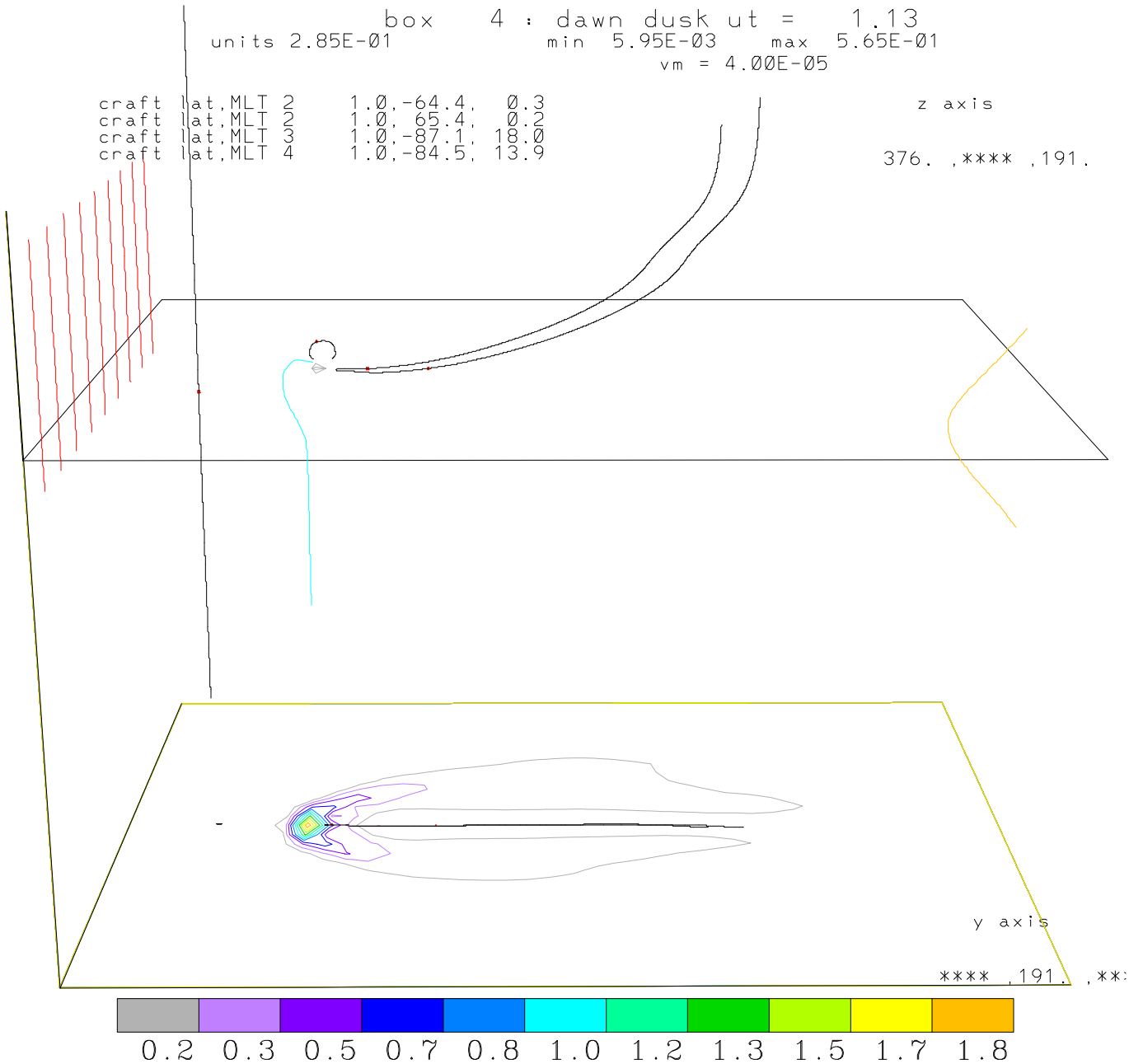



qpreshpr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 5.37E-01
vm = 5.93E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8


hpresopr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 2.55E-02
vm = 4.75E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.13
units 1.00E-01
min 0.00E+00
max 1.80E-02
vm = 9.75E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.13
units 2.82E-01
min 0.00E+00
max 5.65E-01
vm = 5.70E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 4 : dawn dusk ut = 1.13
units 2.85E-01
min 5.95E-03 max 5.65E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-64.4, 0.3
craft lat,MLT 2 1.0, 65.4, 0.2
craft lat,MLT 3 1.0,-87.1, 18.0
craft lat,MLT 4 1.0,-84.5, 13.9
z axis
376. ,**** ,191.
y axis
**** ,191. ,**:
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

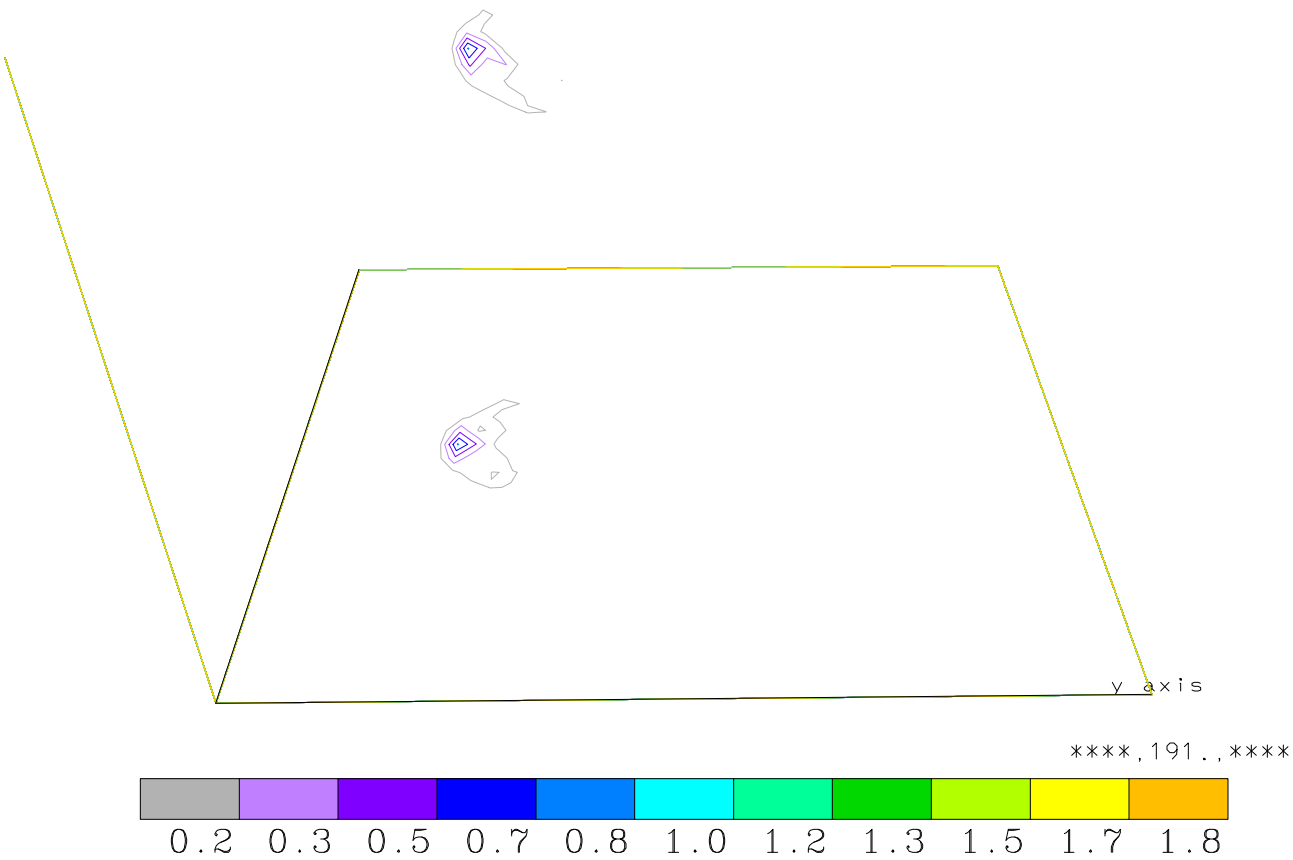
epresq t ut = 1.13

units 2.00E-01 min 0.00E+00 max 1.71E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



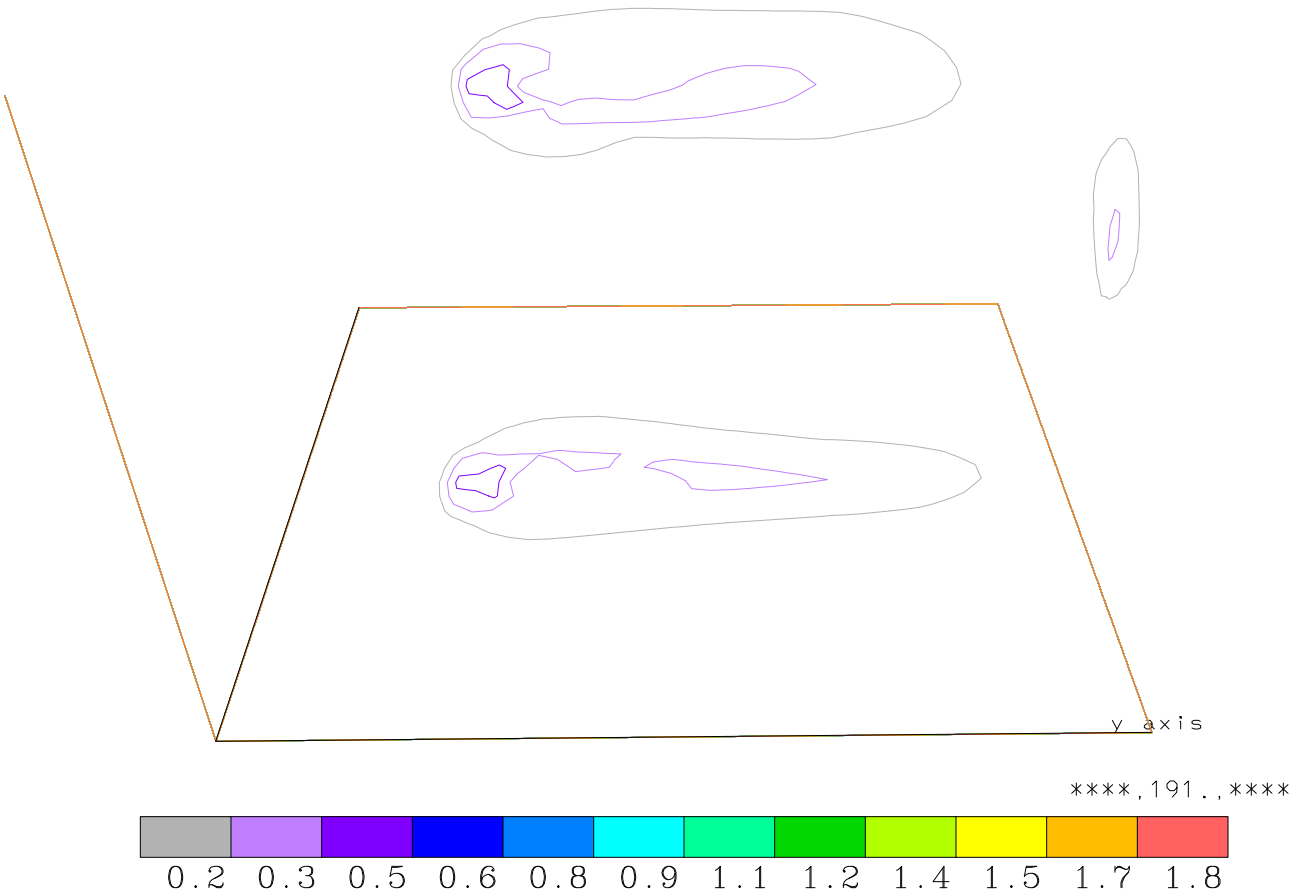
q temph ut = 1.13

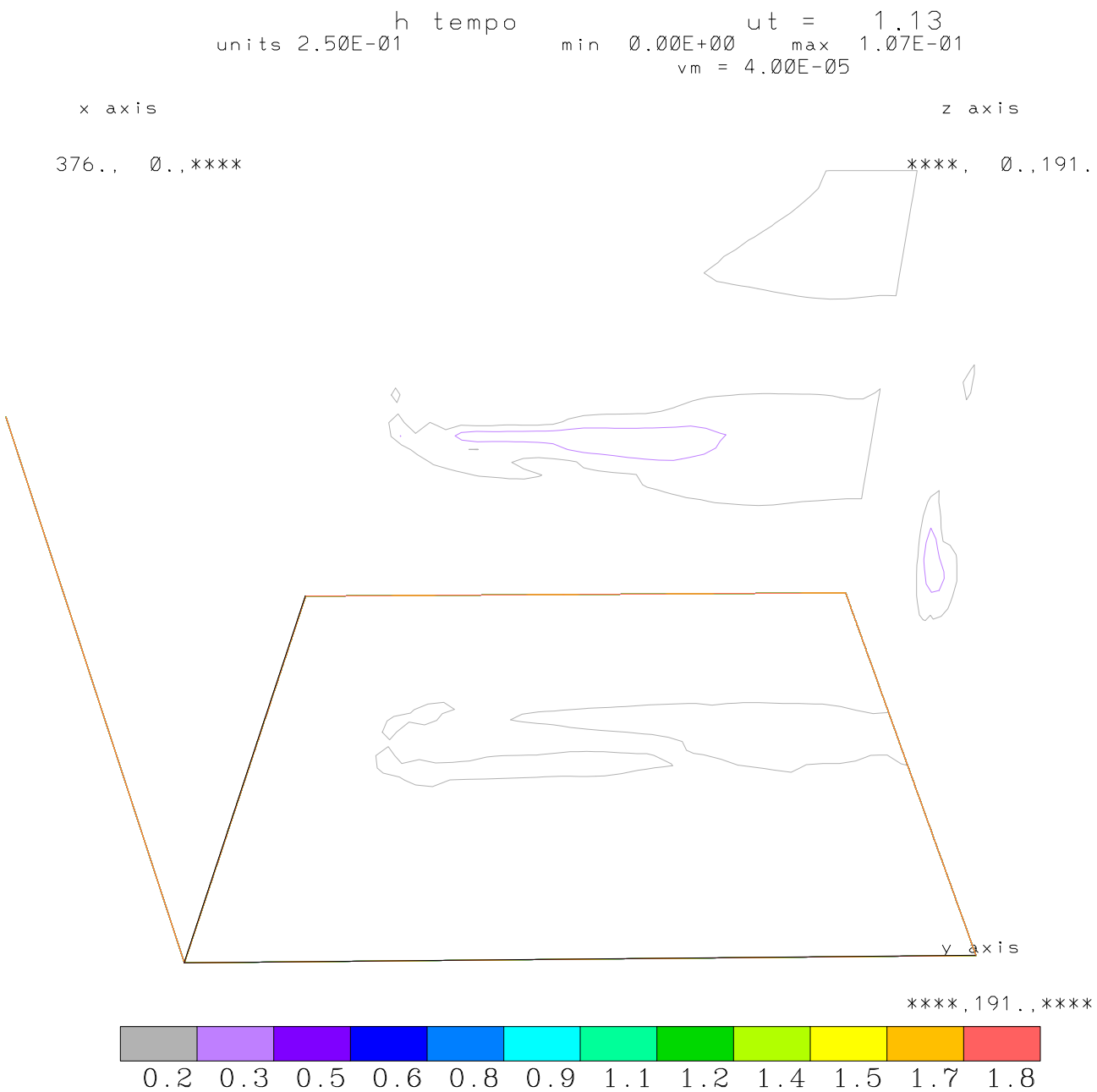
units 2.50E-01 min 0.00E+00 max 1.52E-01

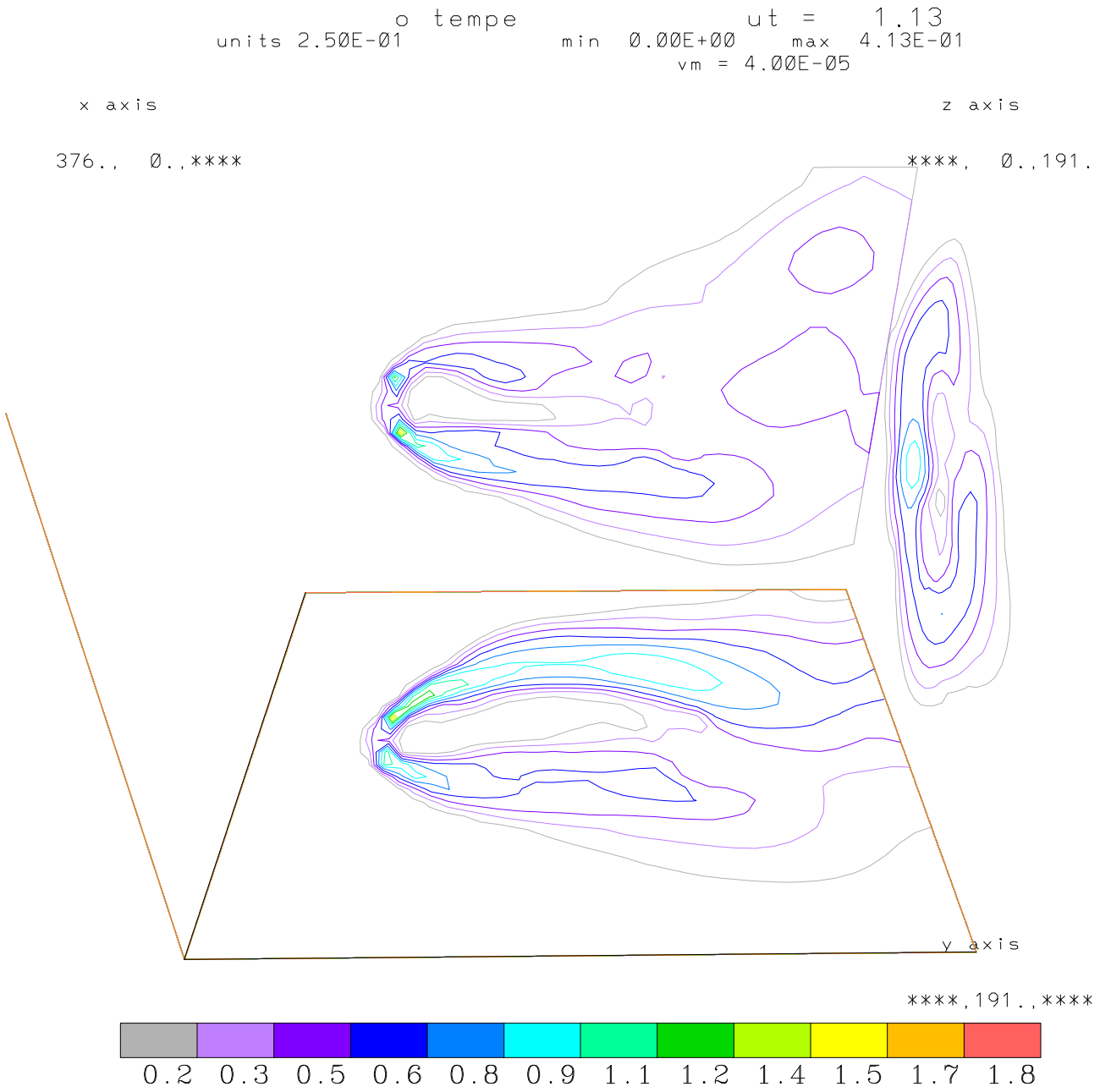
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




h tempo
ut = 1.13
units 2.50E-01
min 0.00E+00
max 1.07E-01
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.13
units 2.50E-01
min 0.00E+00
max 4.13E-01
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

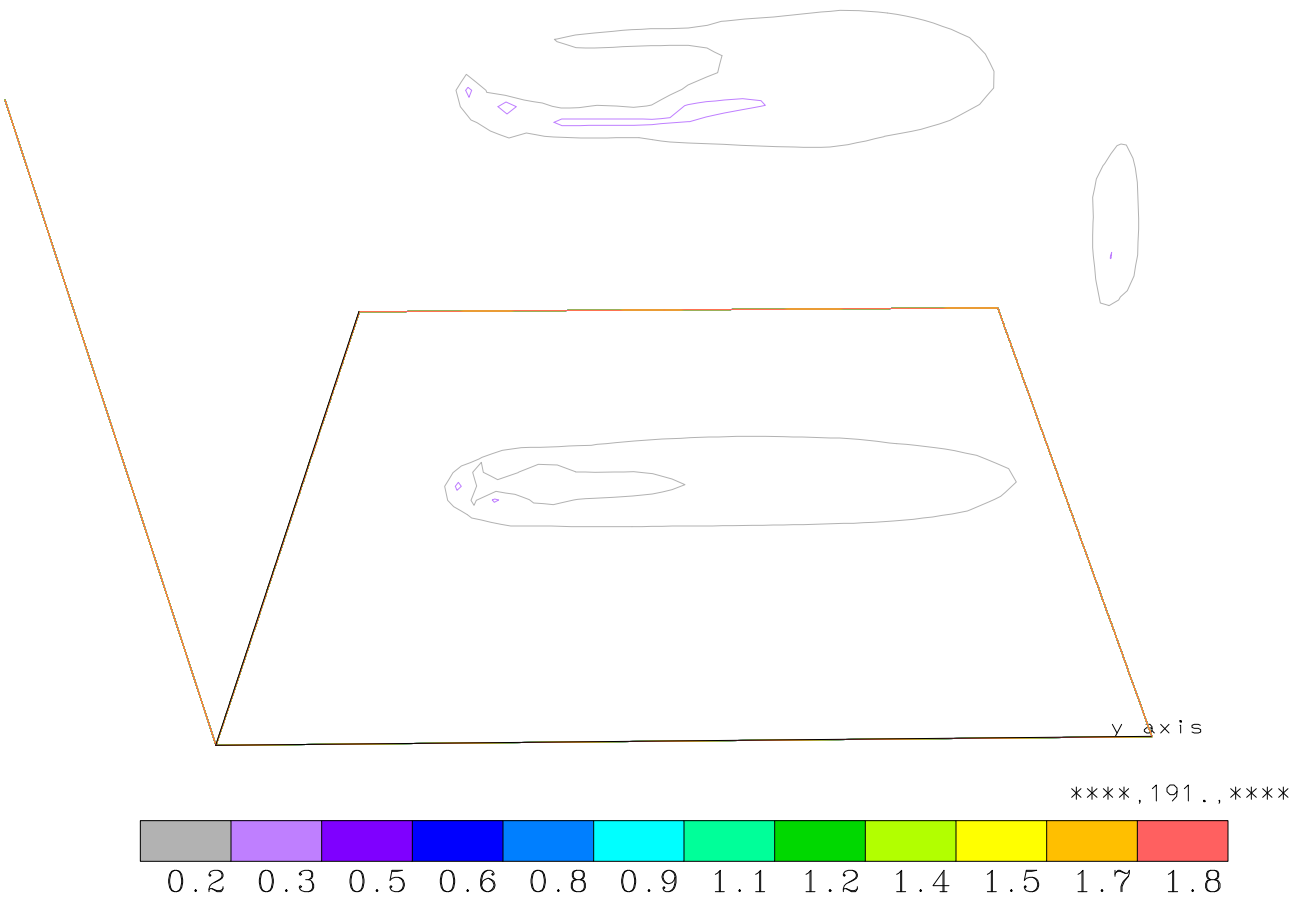
e tempq ut = 1.13

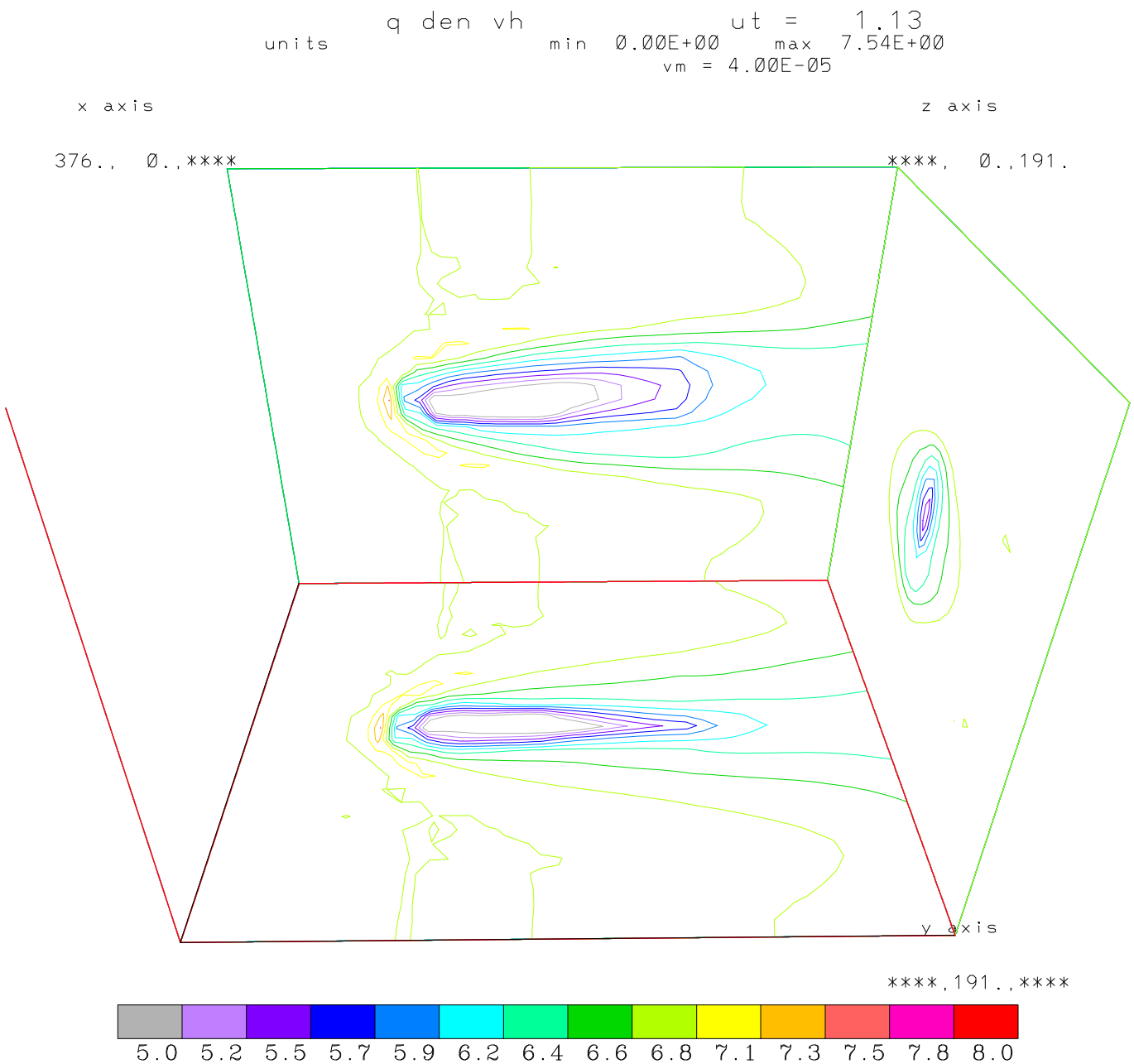
units 1.12E-01 min 0.00E+00 max 4.55E-02

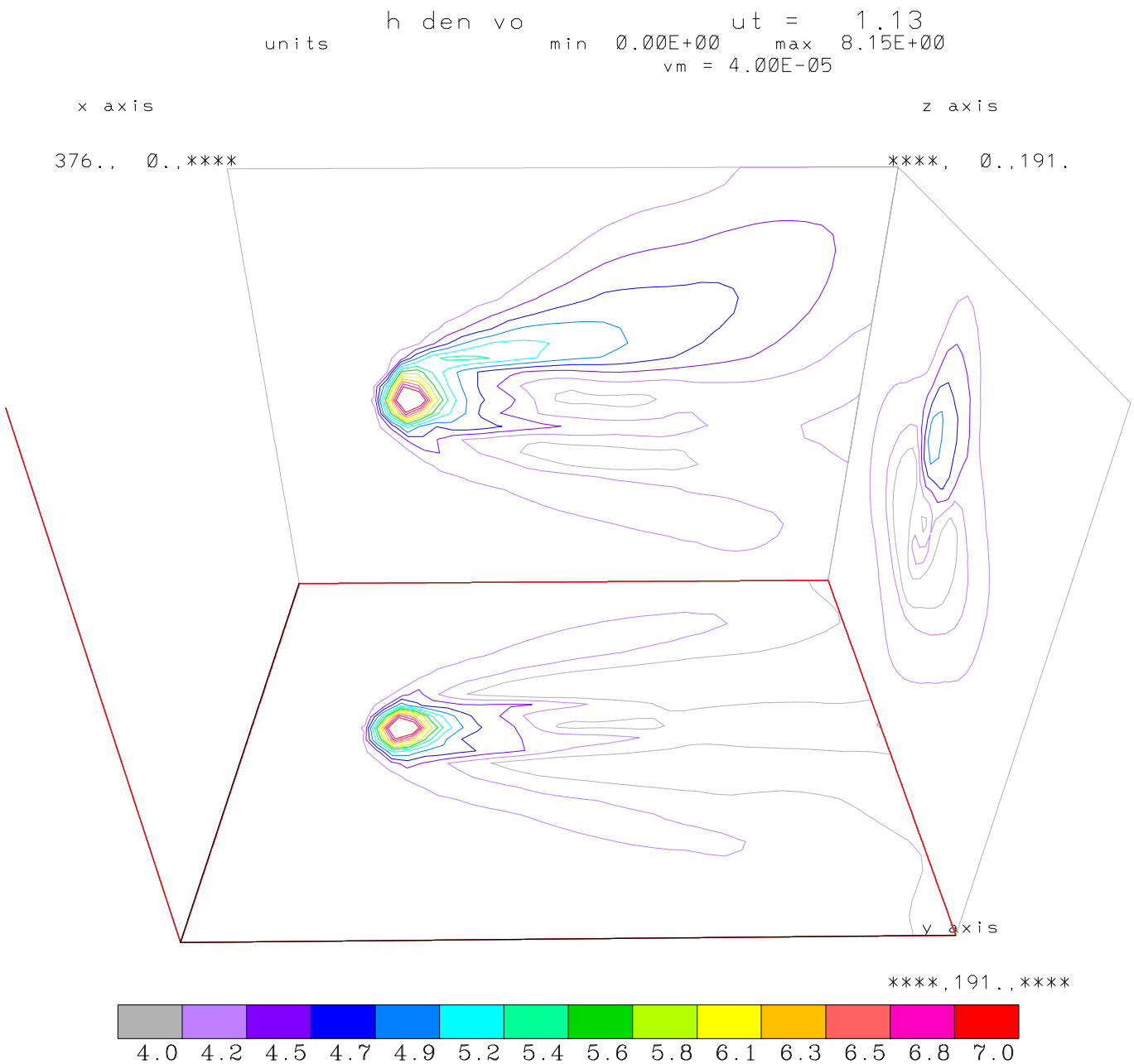
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




q den vh
ut = 1.13
units
min 0.00E+00
max 7.54E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 1.13
units min 0.00E+00 max 8.15E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

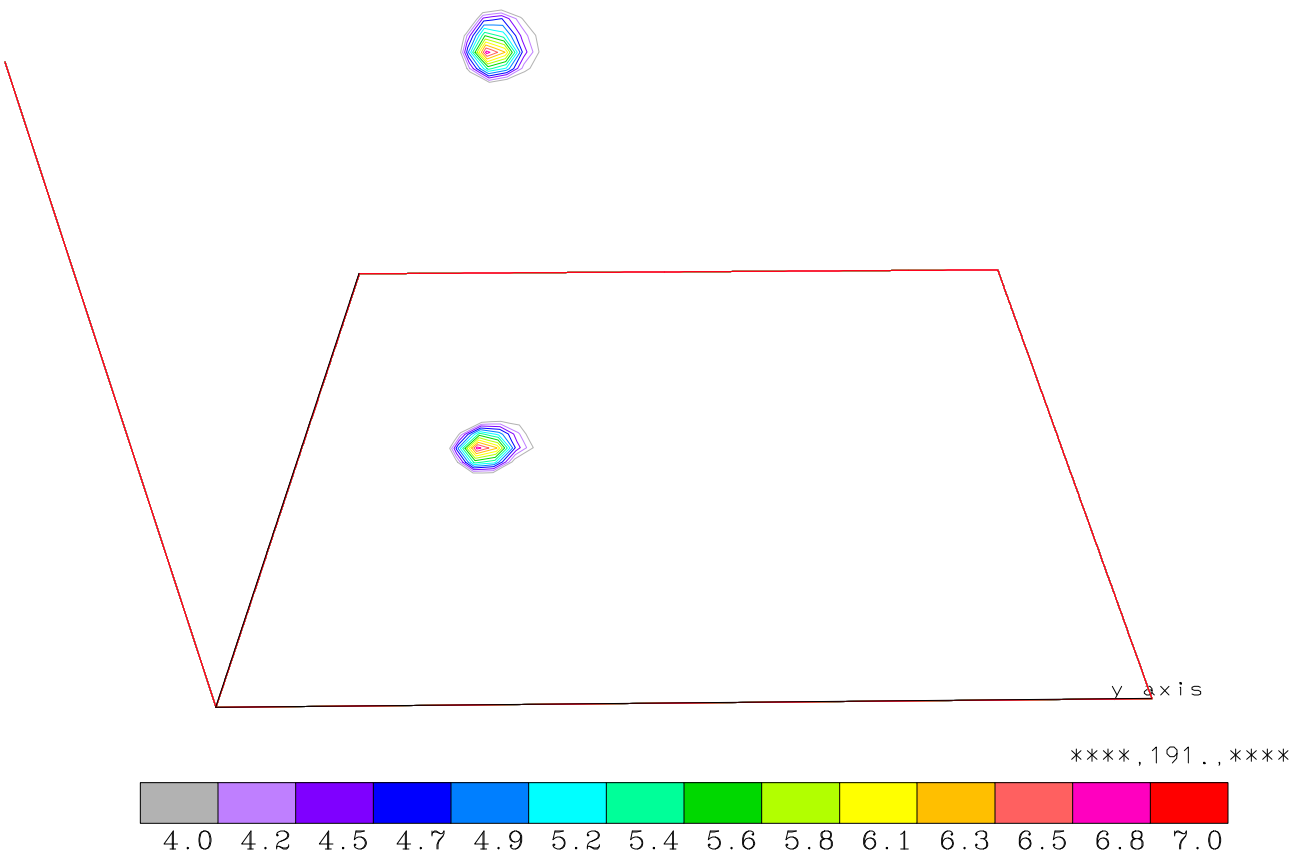
o den vt ut = 1.13

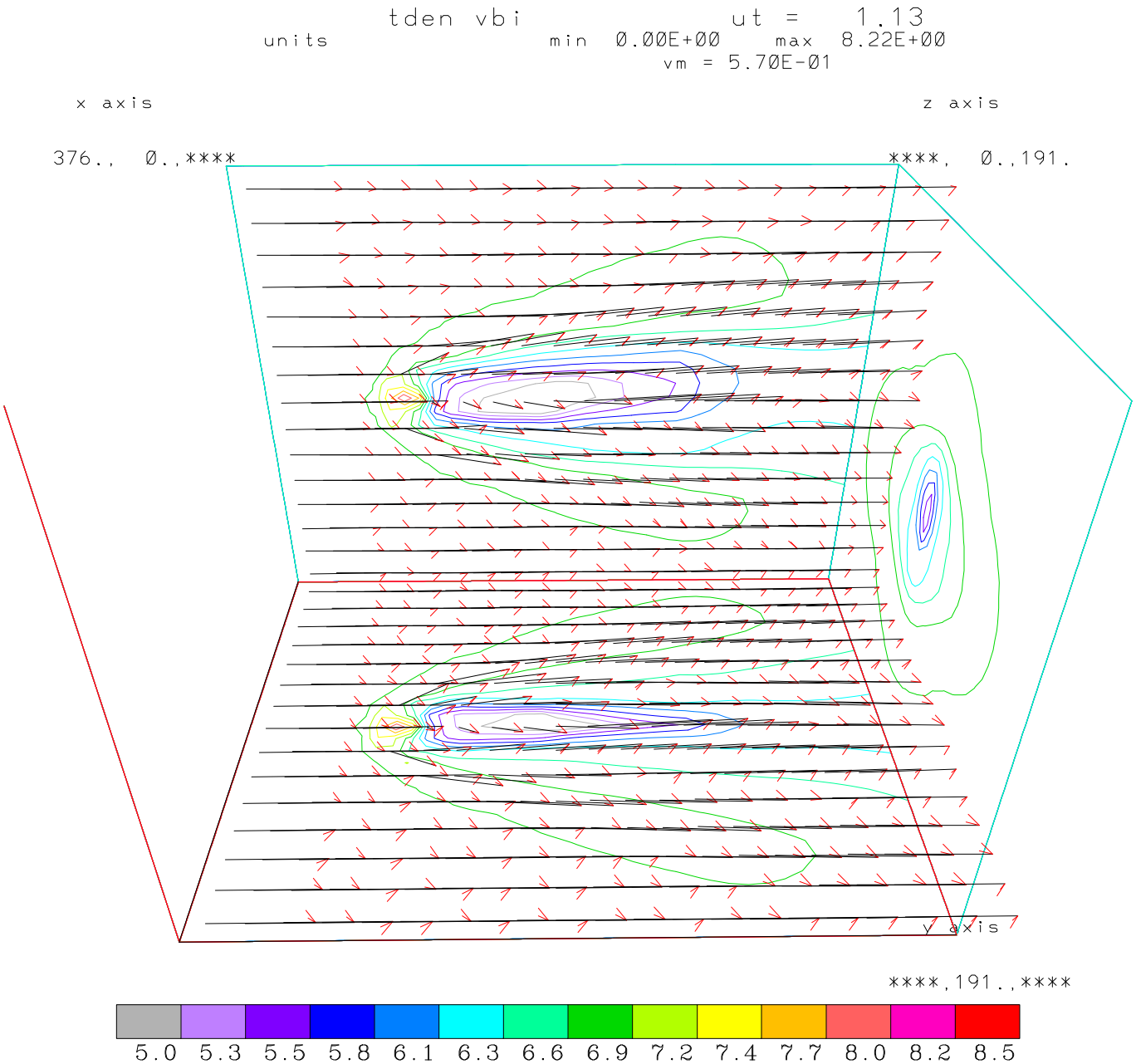
units min 0.00E+00 max 6.87E+00

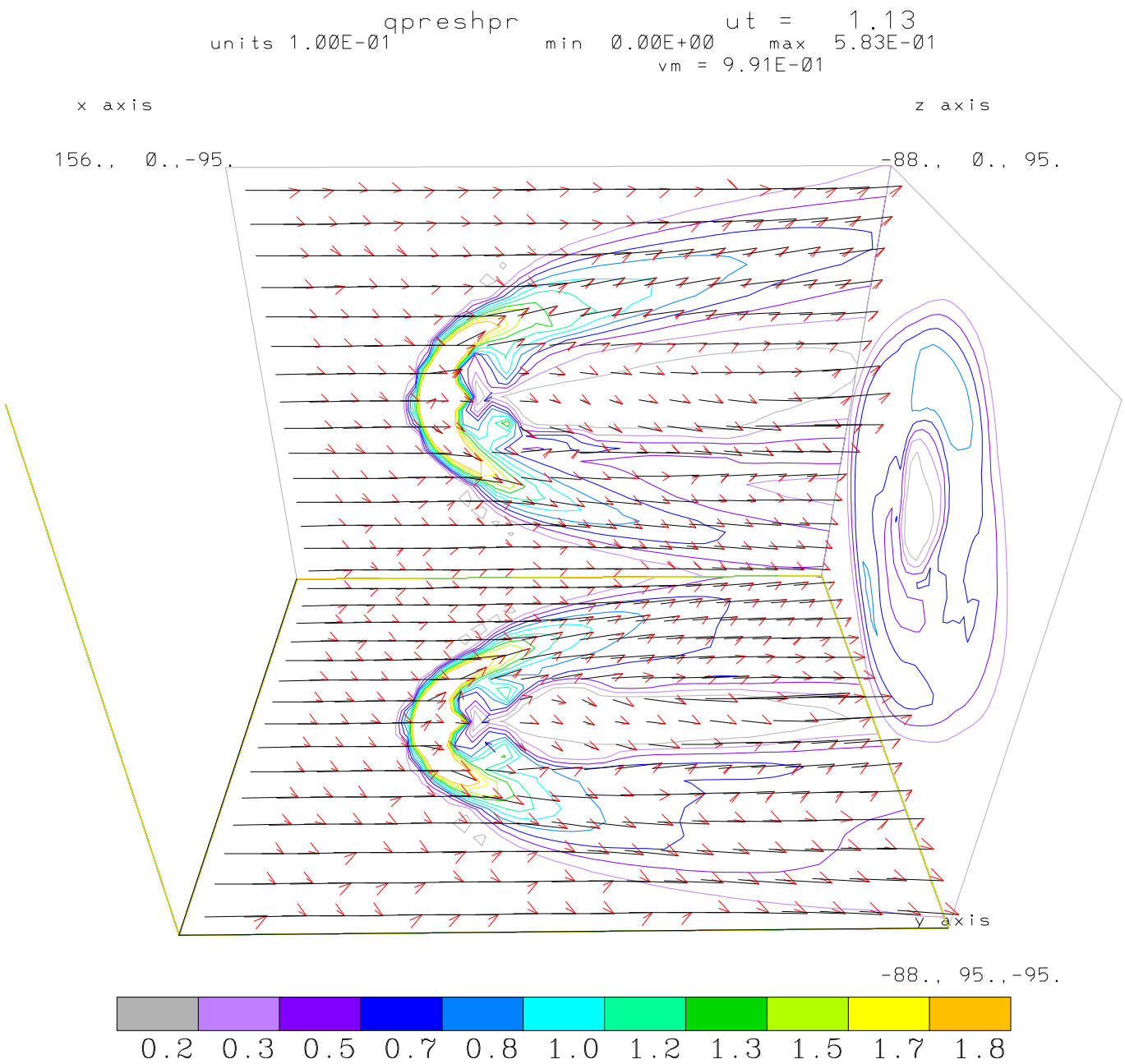
vm = 4.00E-05

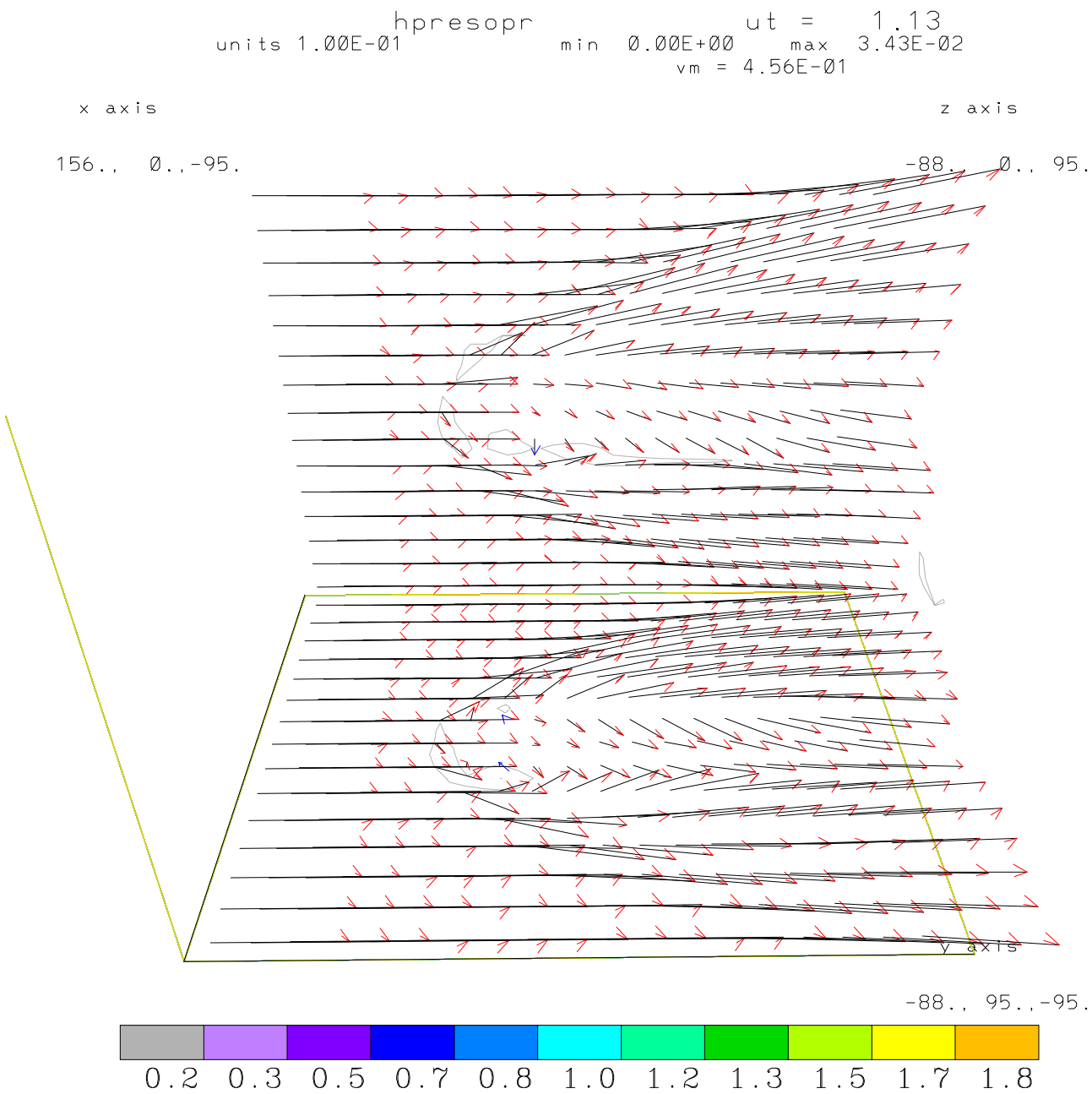
x axis z axis

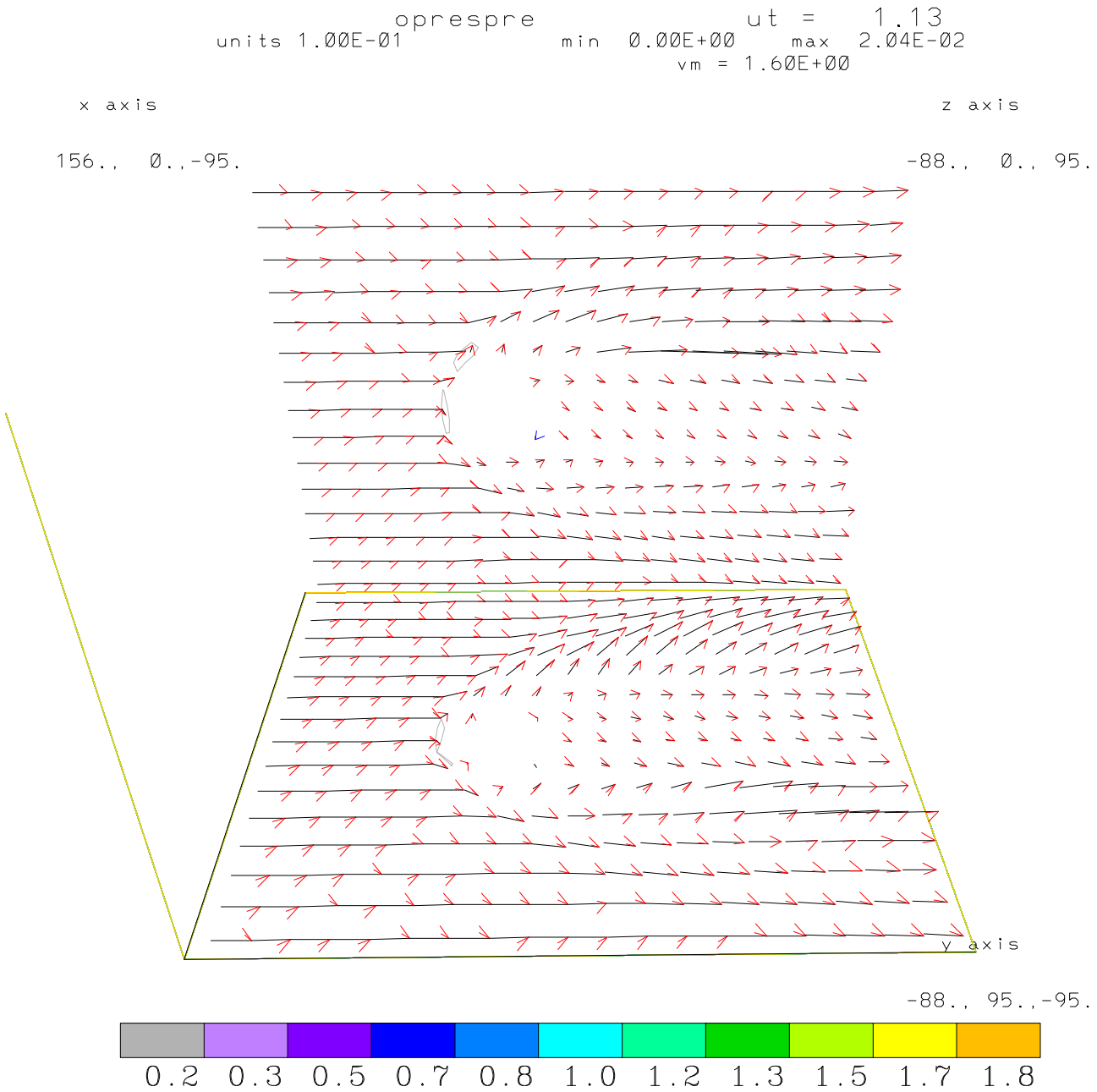
376., 0.,**** ****, 0.,191.

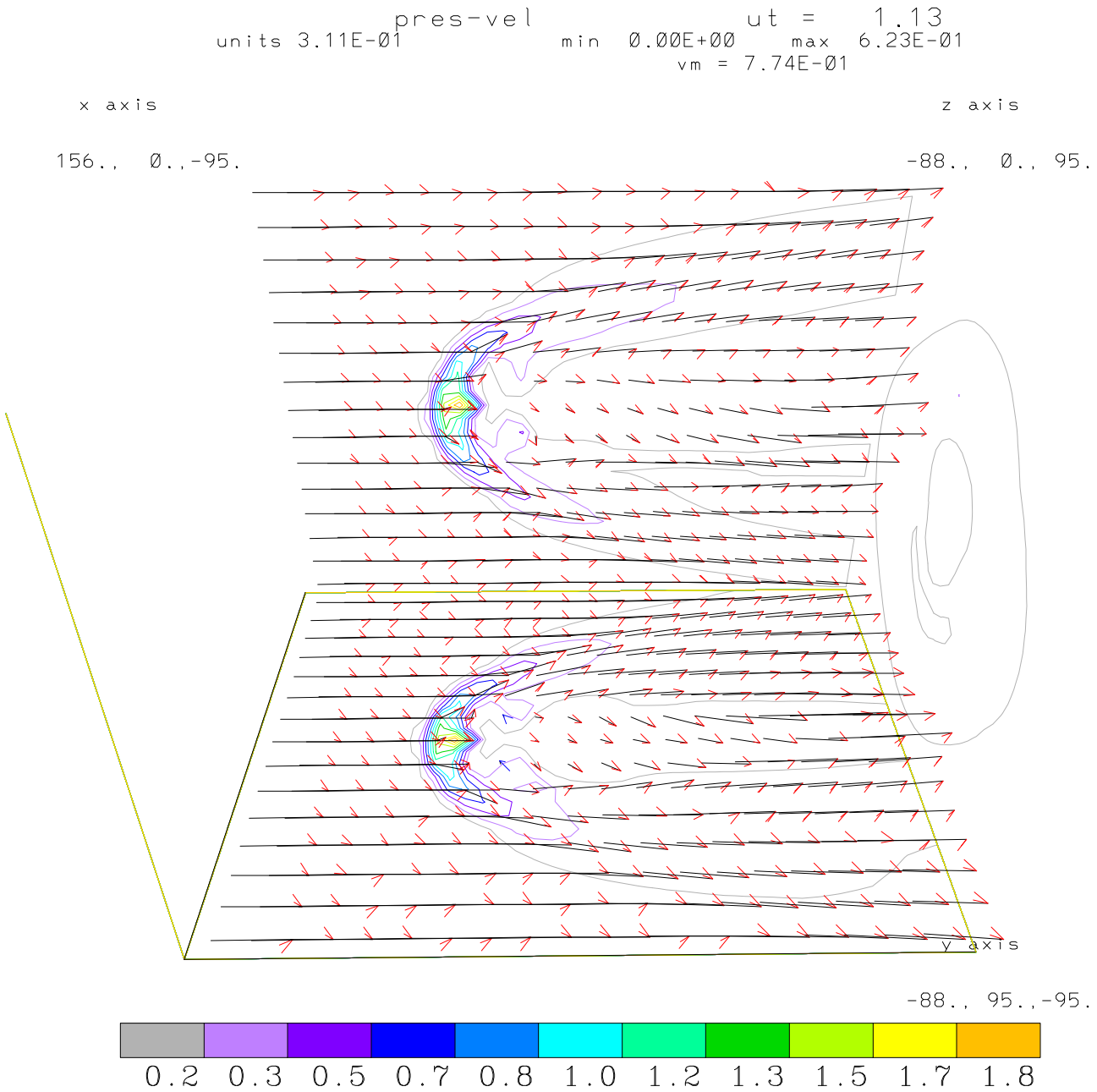


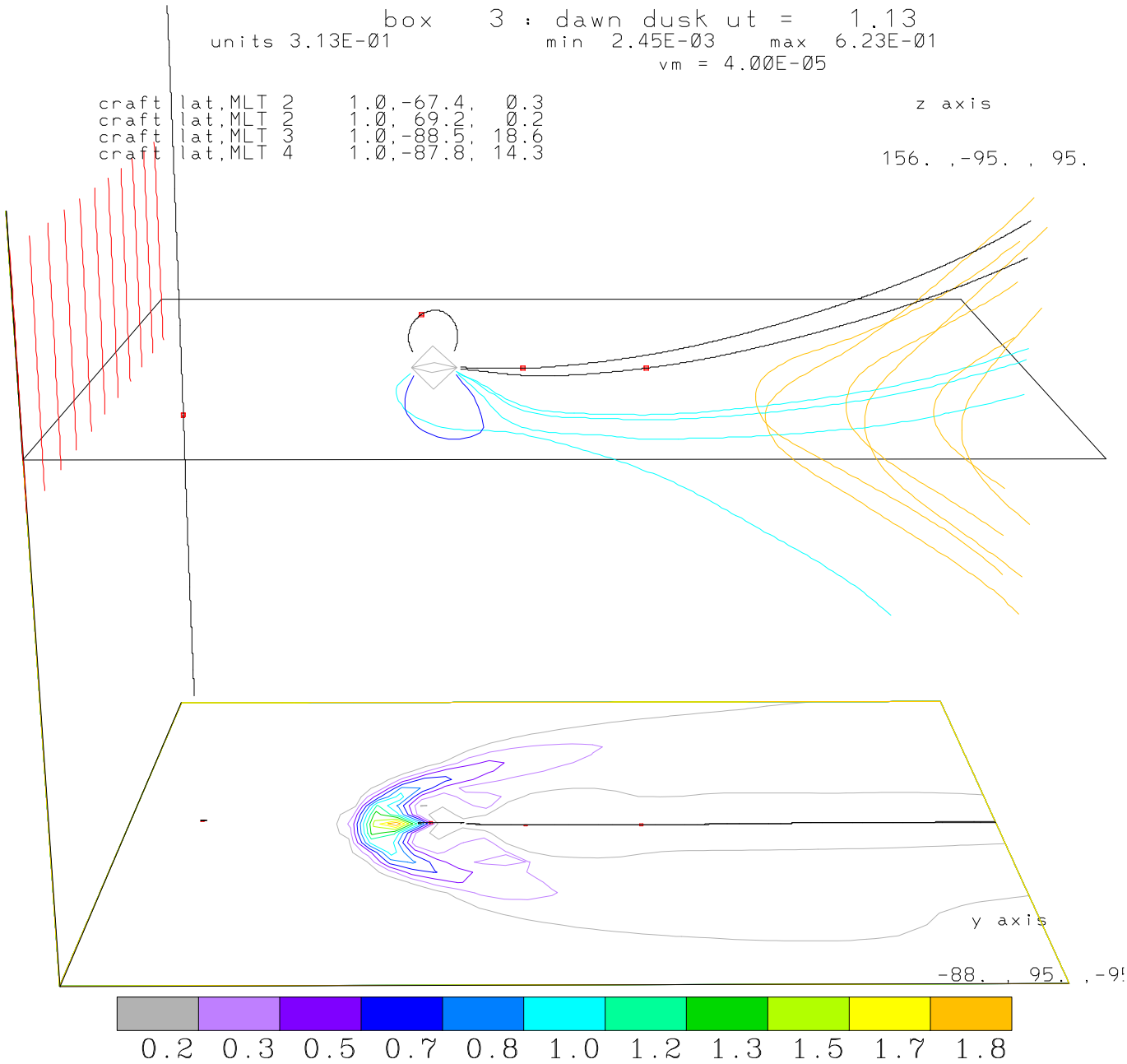

tden vbi
ut = 1.13
units
min 0.00E+00
max 8.22E+00
vm = 5.70E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 5.83E-01
vm = 9.91E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 3.43E-02
vm = 4.56E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.13
units 1.00E-01
min 0.00E+00
max 2.04E-02
vm = 1.60E+00
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.13
units 3.11E-01
min 0.00E+00
max 6.23E-01
vm = 7.74E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 3 : dawn dusk ut = 1.13
units 3.13E-01
min 2.45E-03 max 6.23E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.4, 0.3
craft lat,MLT 2 1.0, 69.2, 0.2
craft lat,MLT 3 1.0,-88.5, 18.6
craft lat,MLT 4 1.0,-87.8, 14.3
z axis
156. ,-95. , 95.
y axis
-88. , 95. ,-9
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

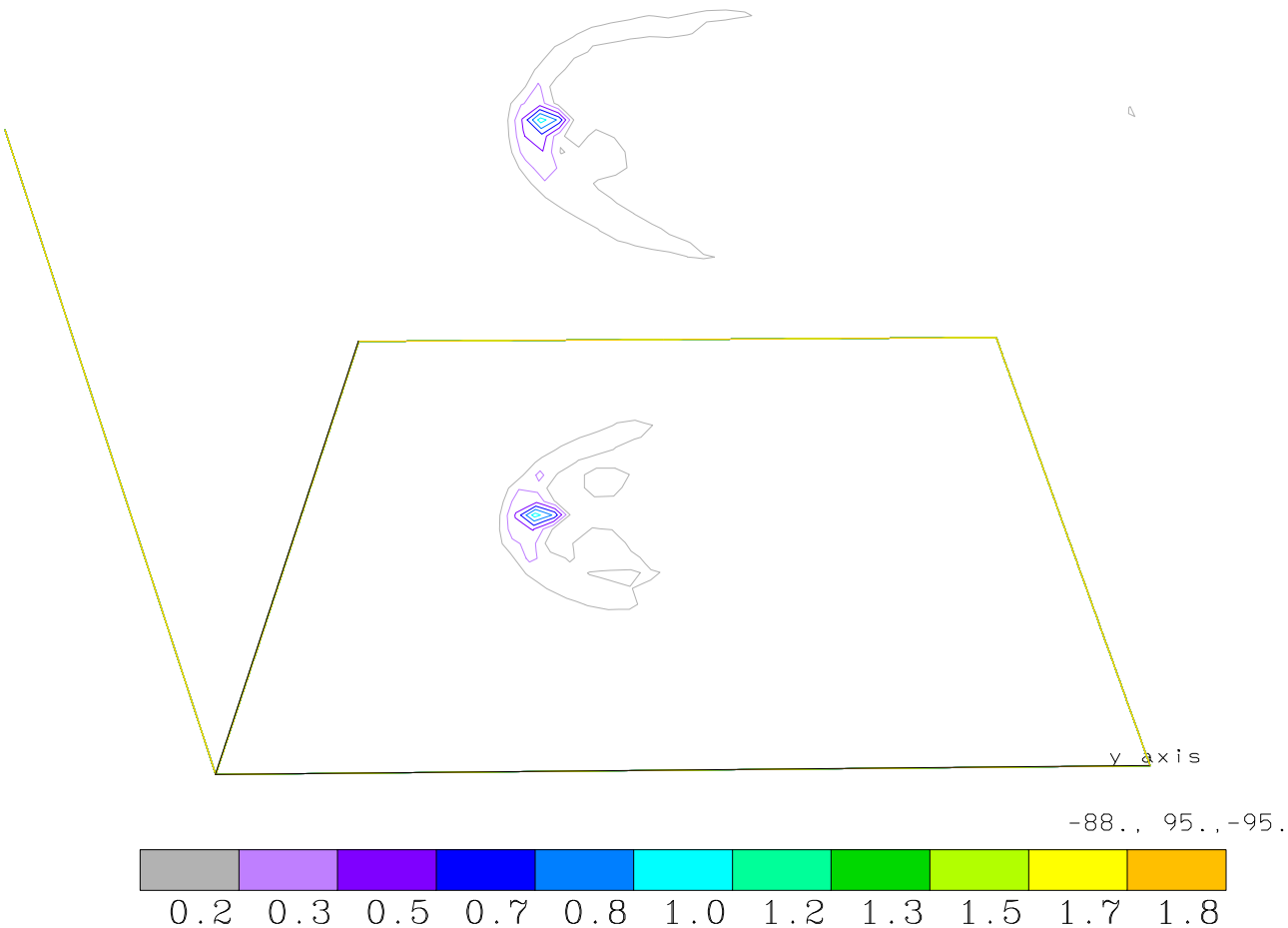
epresq t ut = 1.13

units 2.00E-01 min 0.00E+00 max 2.17E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



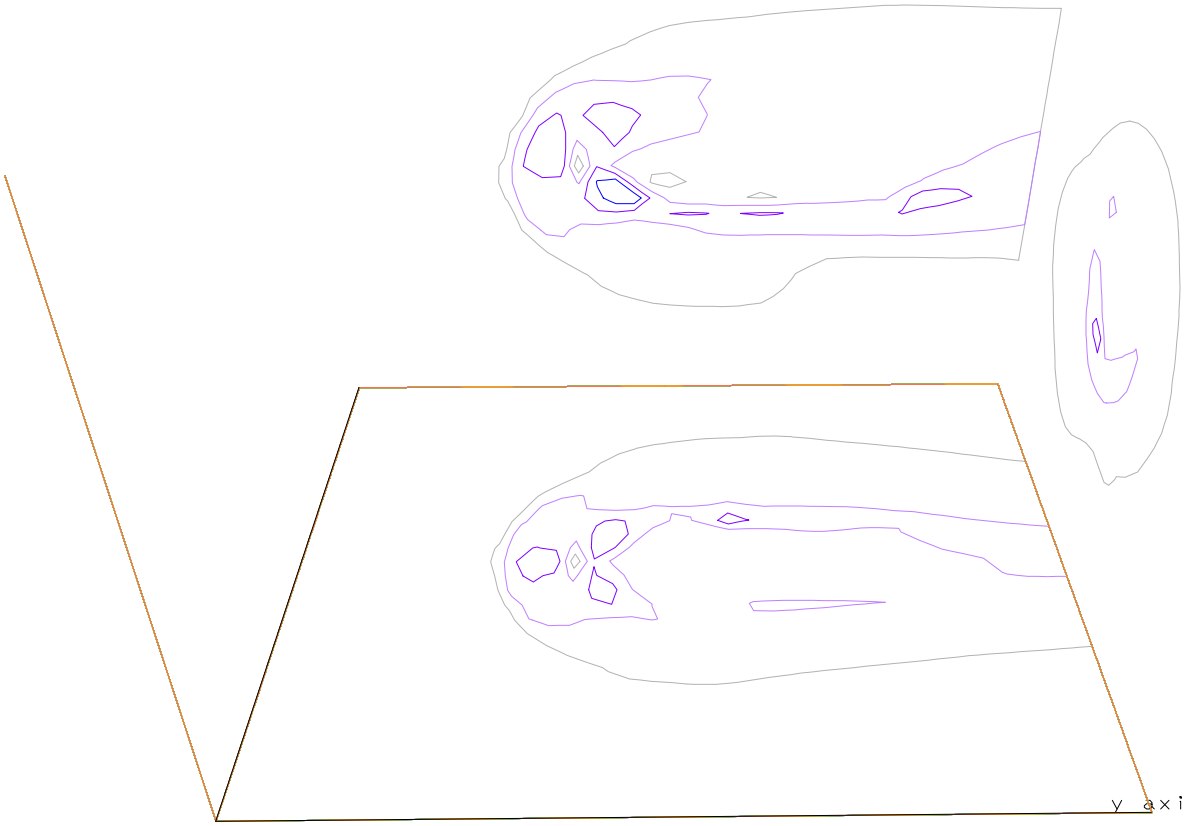
q temph ut = 1.13

units 2.50E-01 min 0.00E+00 max 1.89E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



-88., 95.,-95.

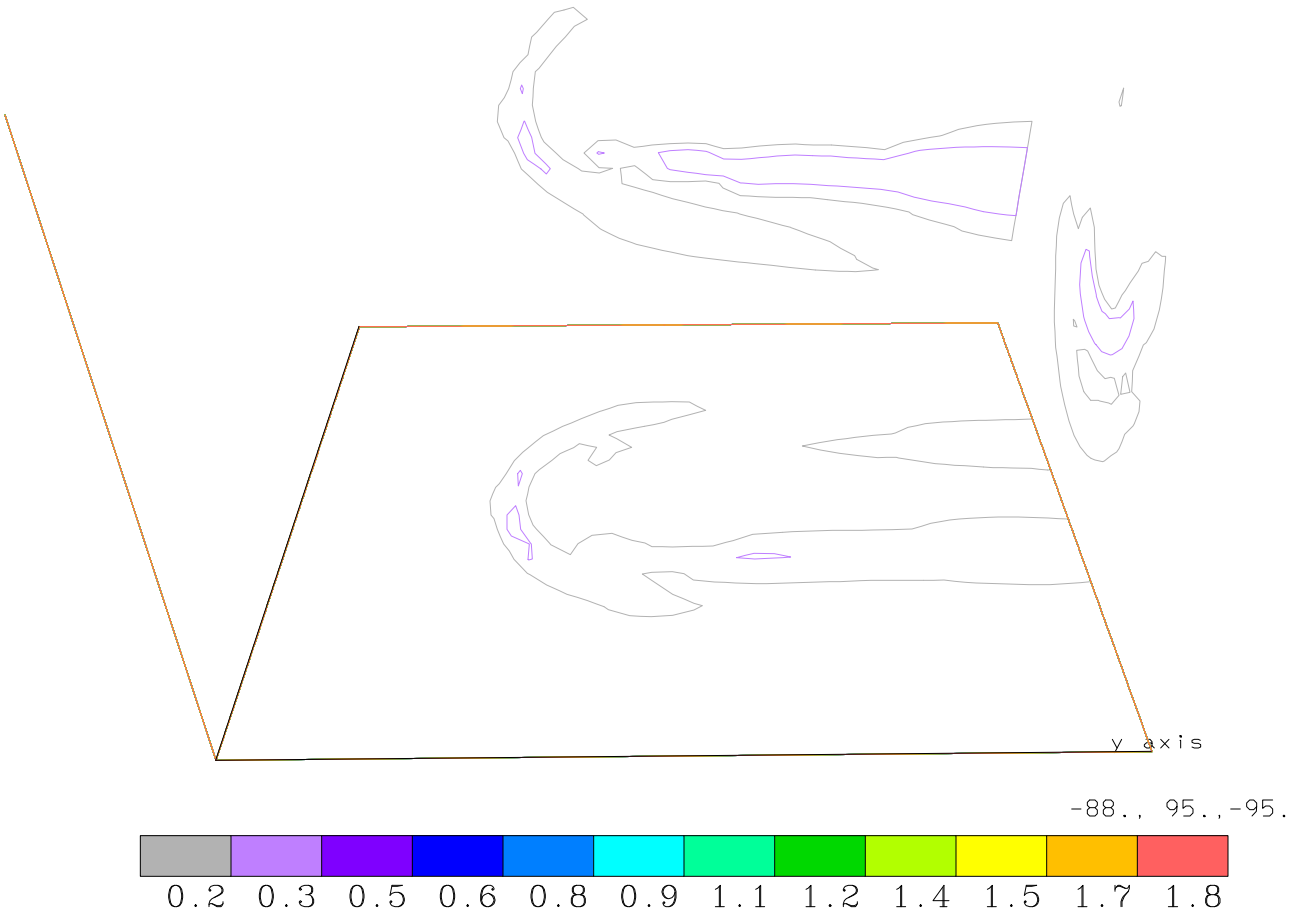
h tempo ut = 1.13

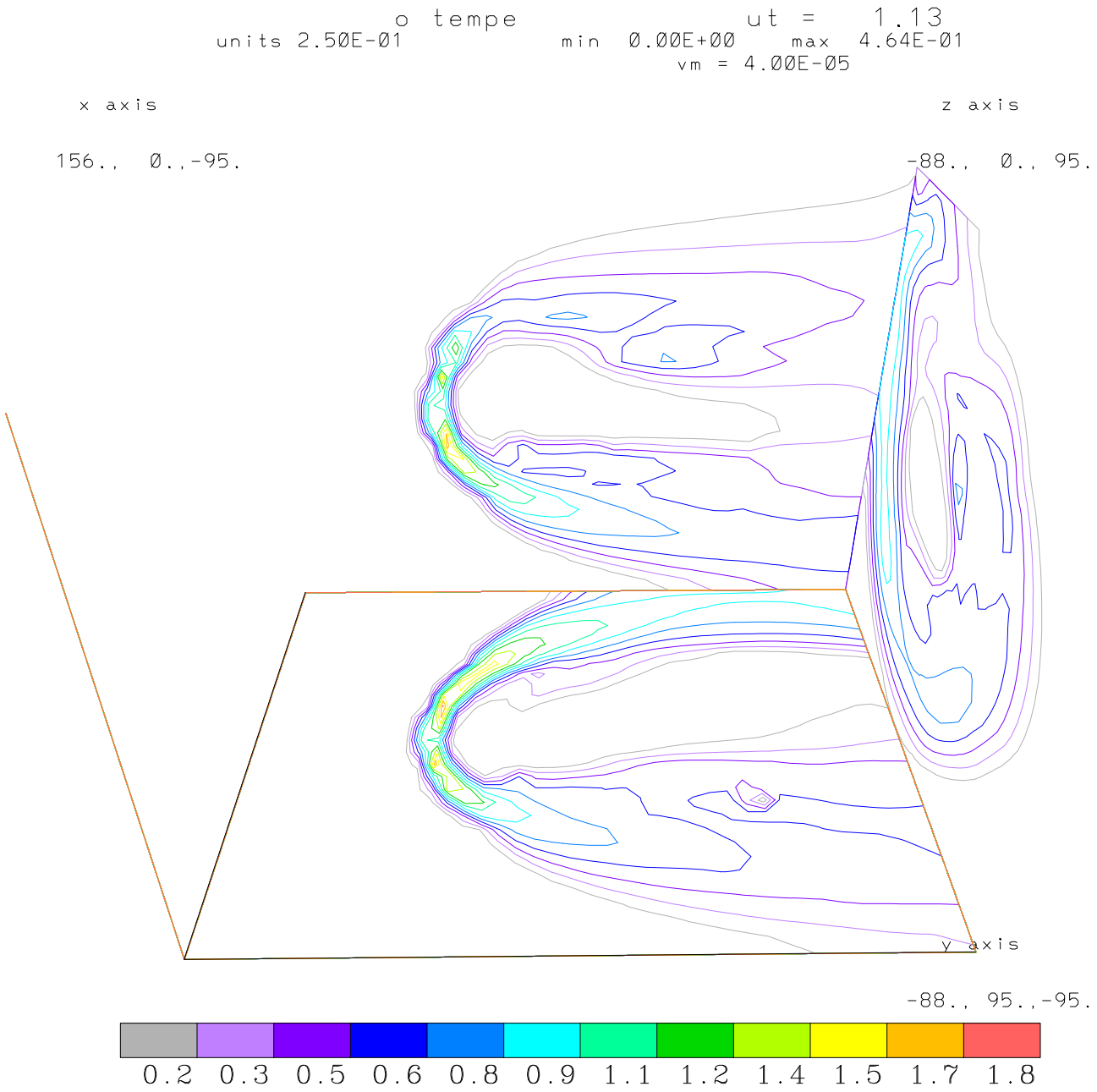
units 2.50E-01 min 0.00E+00 max 1.19E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.




o tempe
ut = 1.13
units 2.50E-01
min 0.00E+00
max 4.64E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

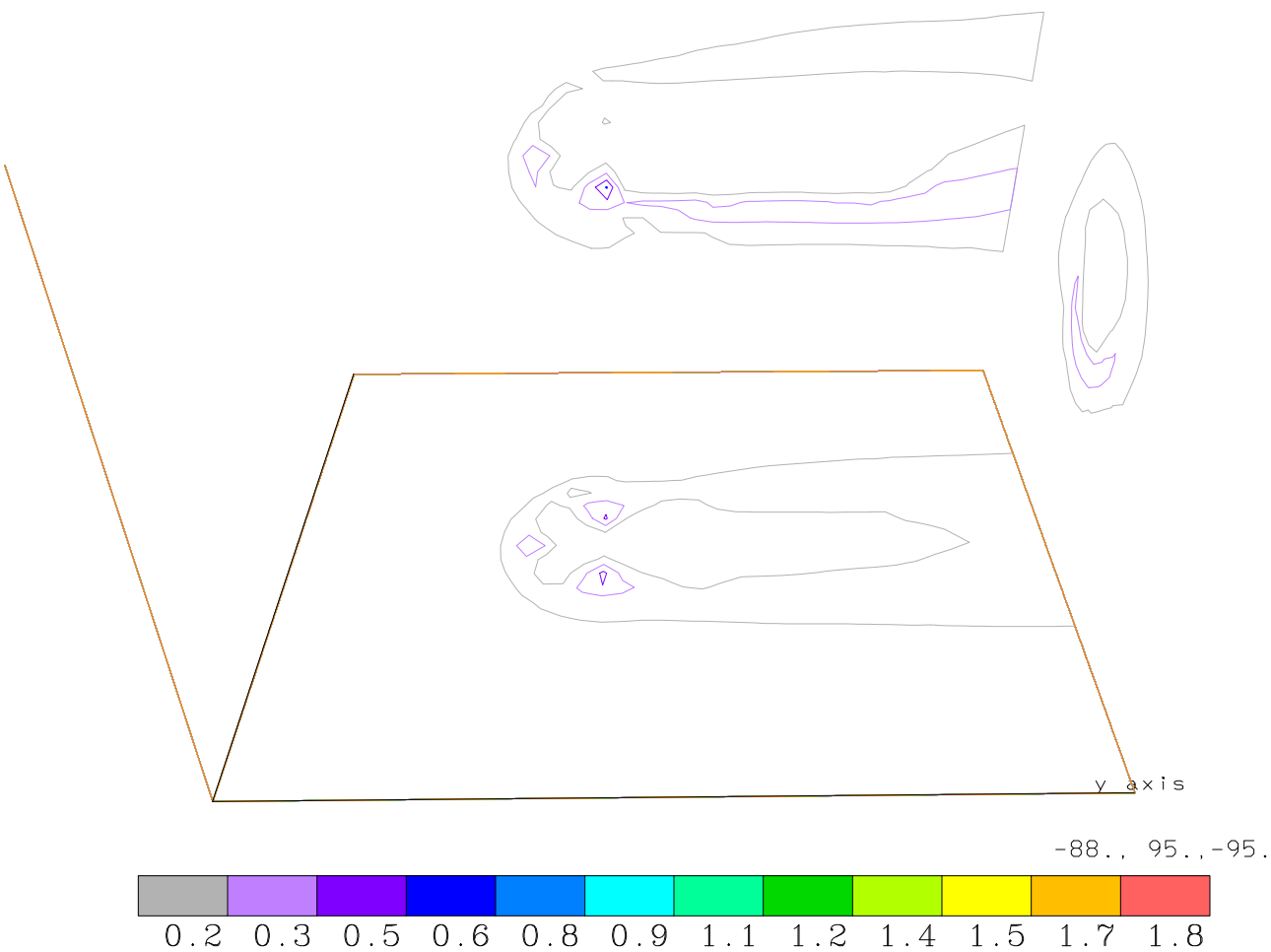
e tempq ut = 1.13

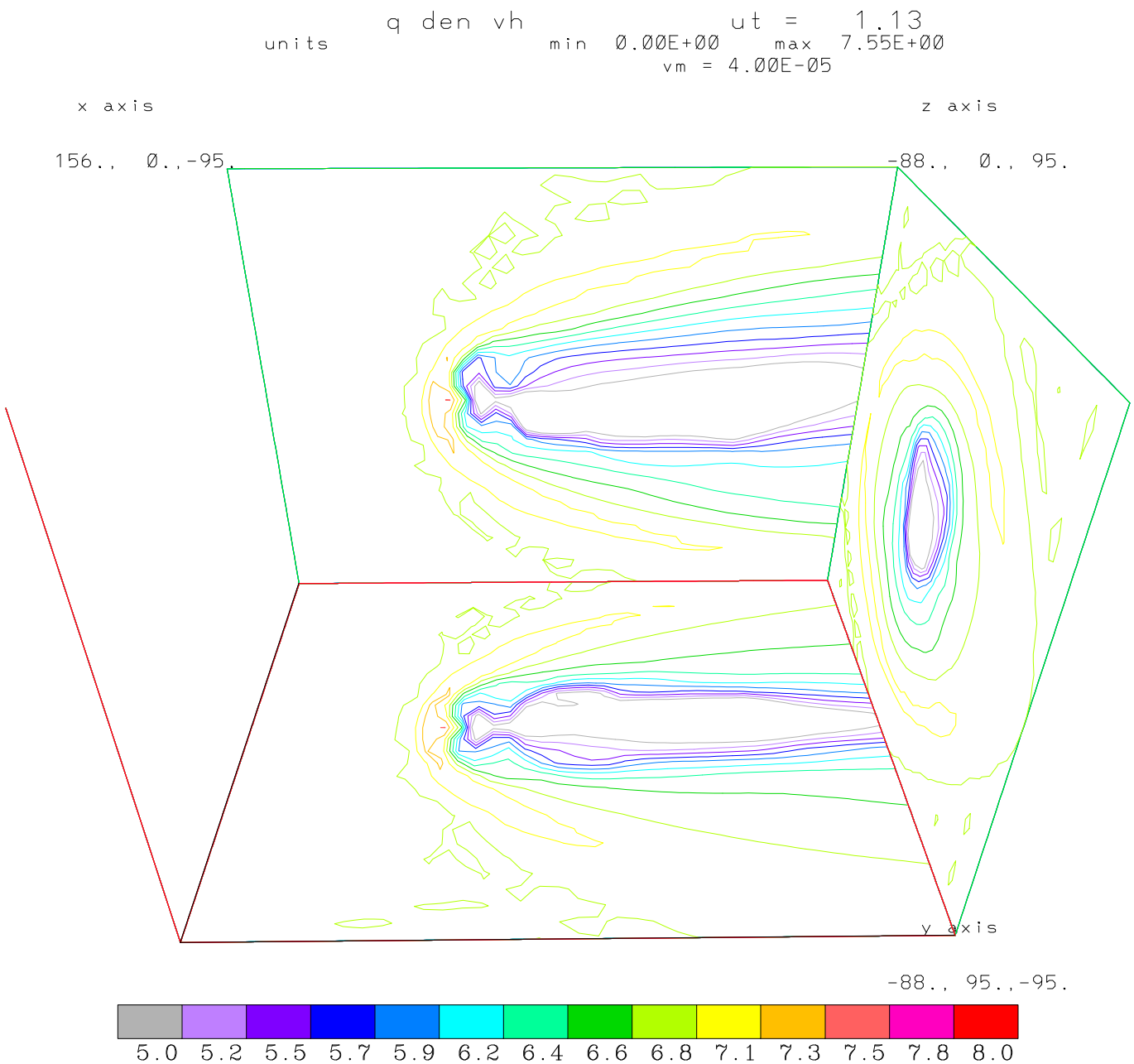
units 1.12E-01 min 0.00E+00 max 7.07E-02

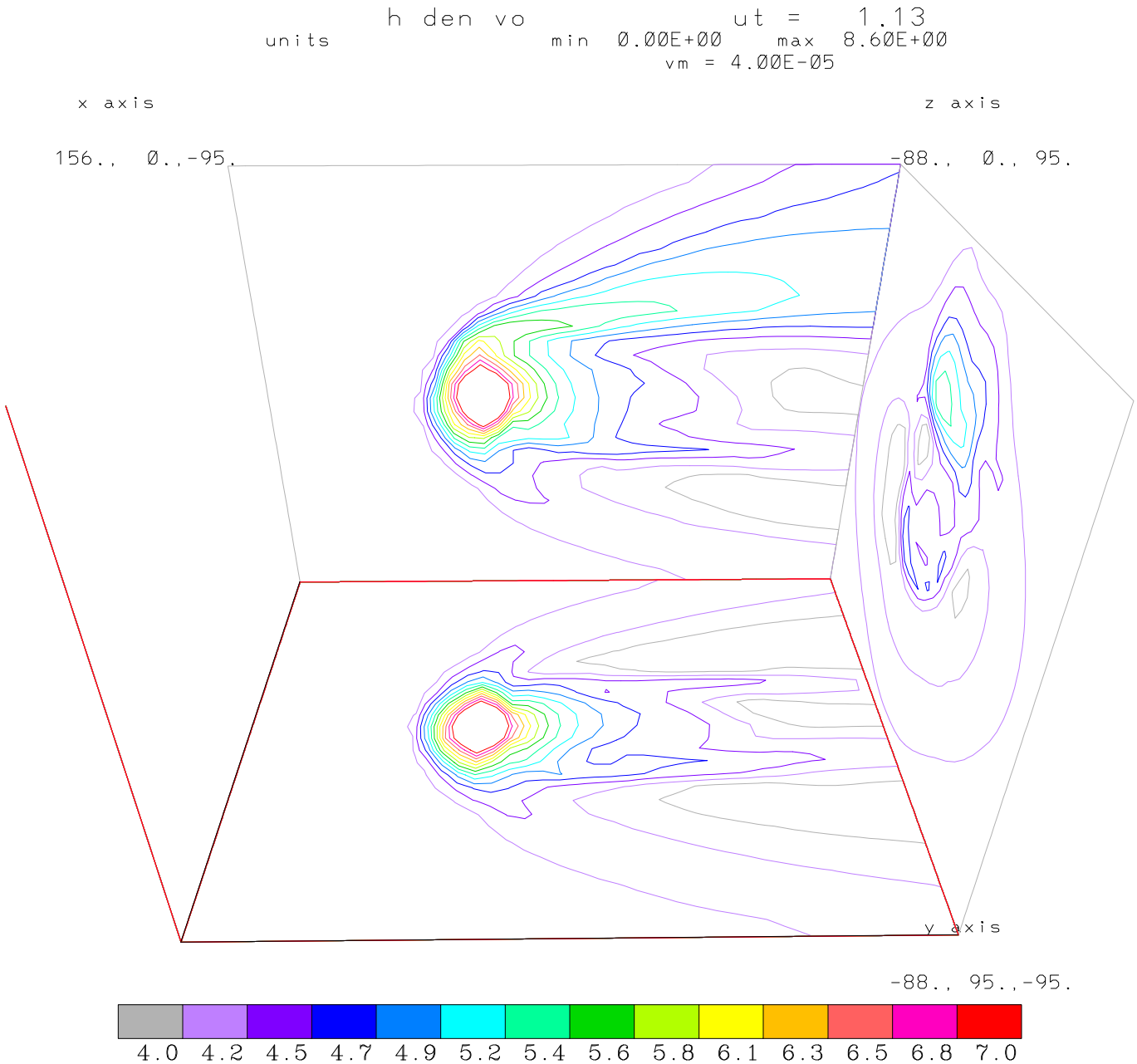
vm = 4.00E-05

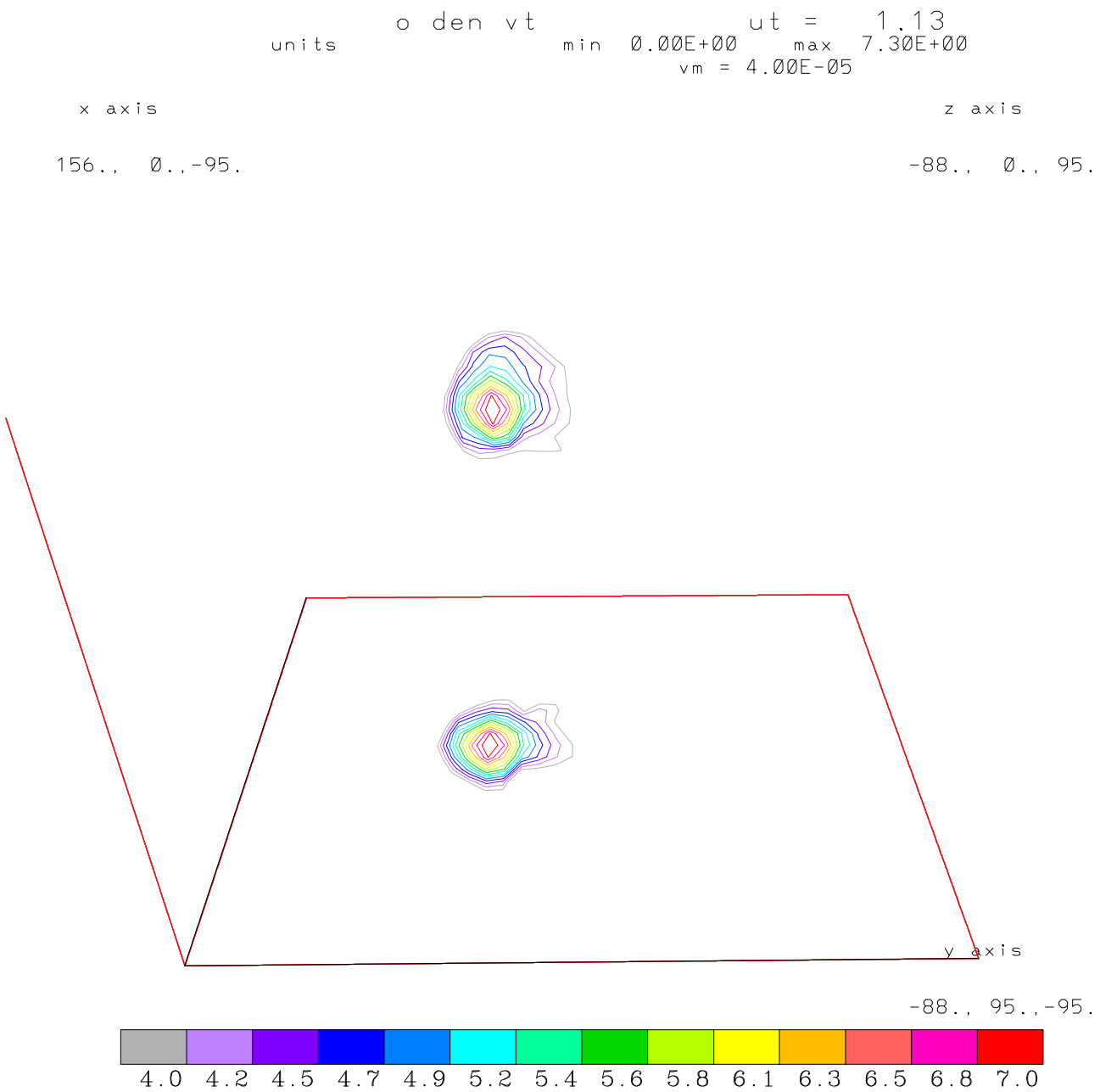
x axis z axis

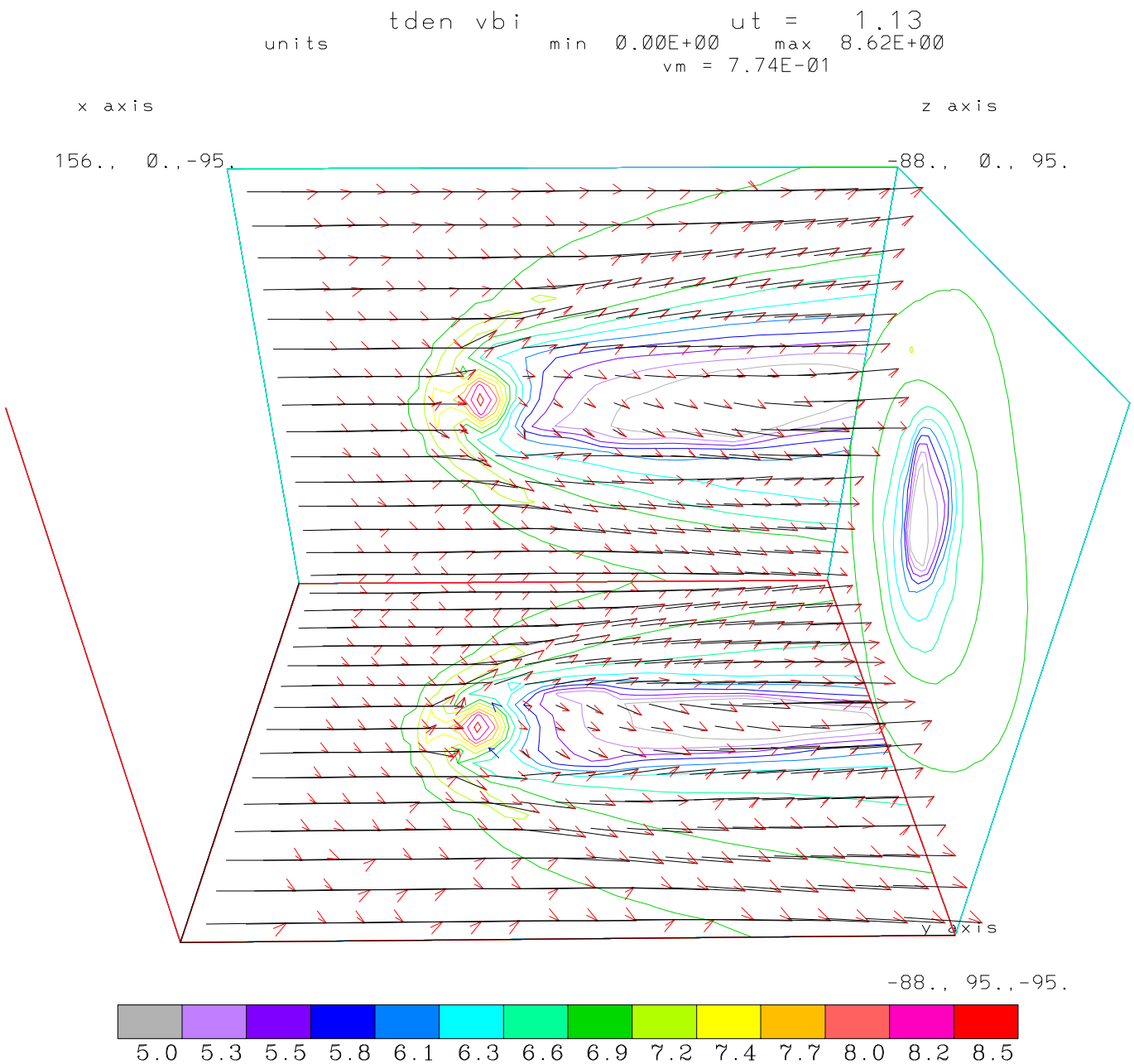
156., 0.,-95. -88., 0., 95.

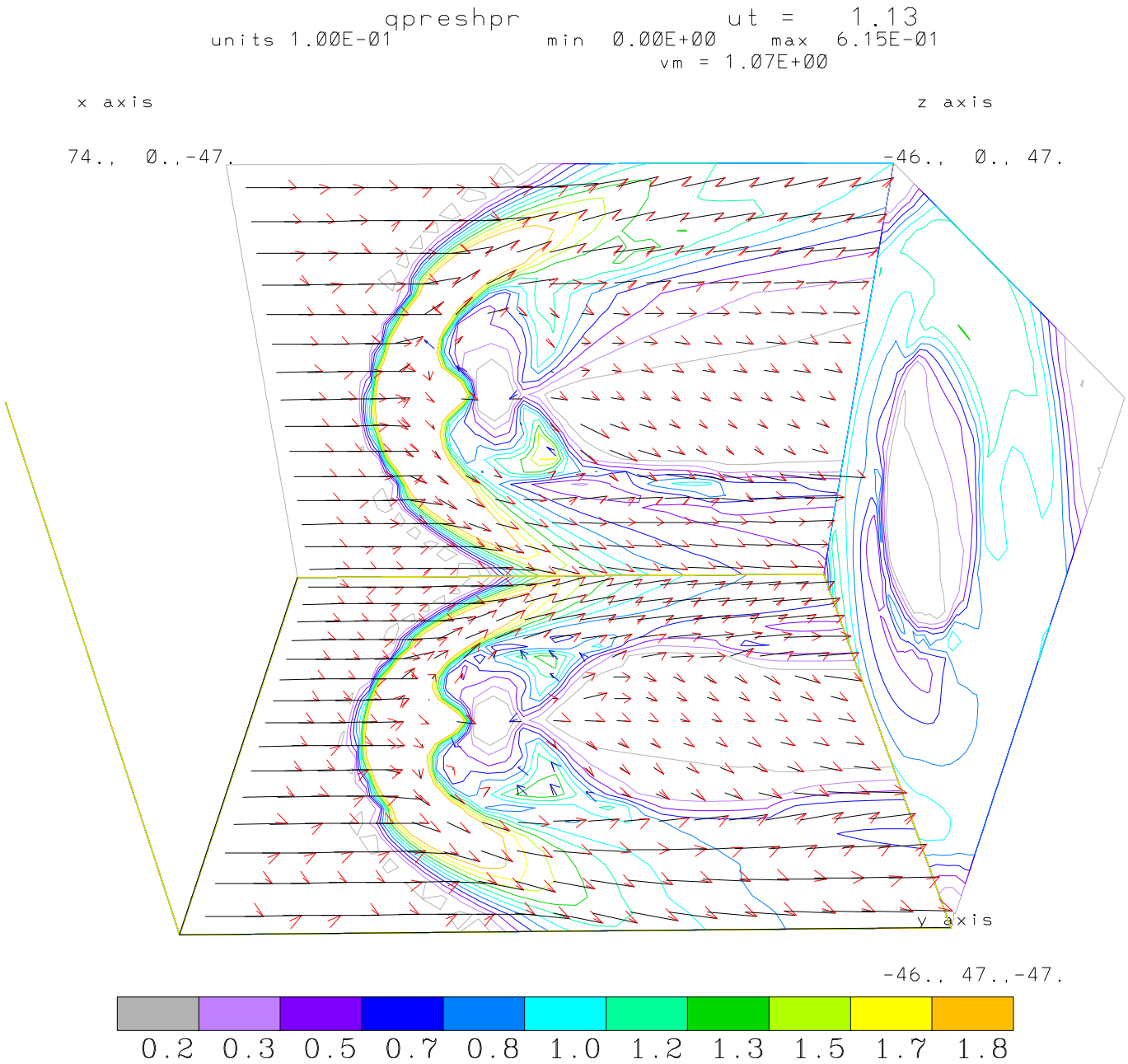


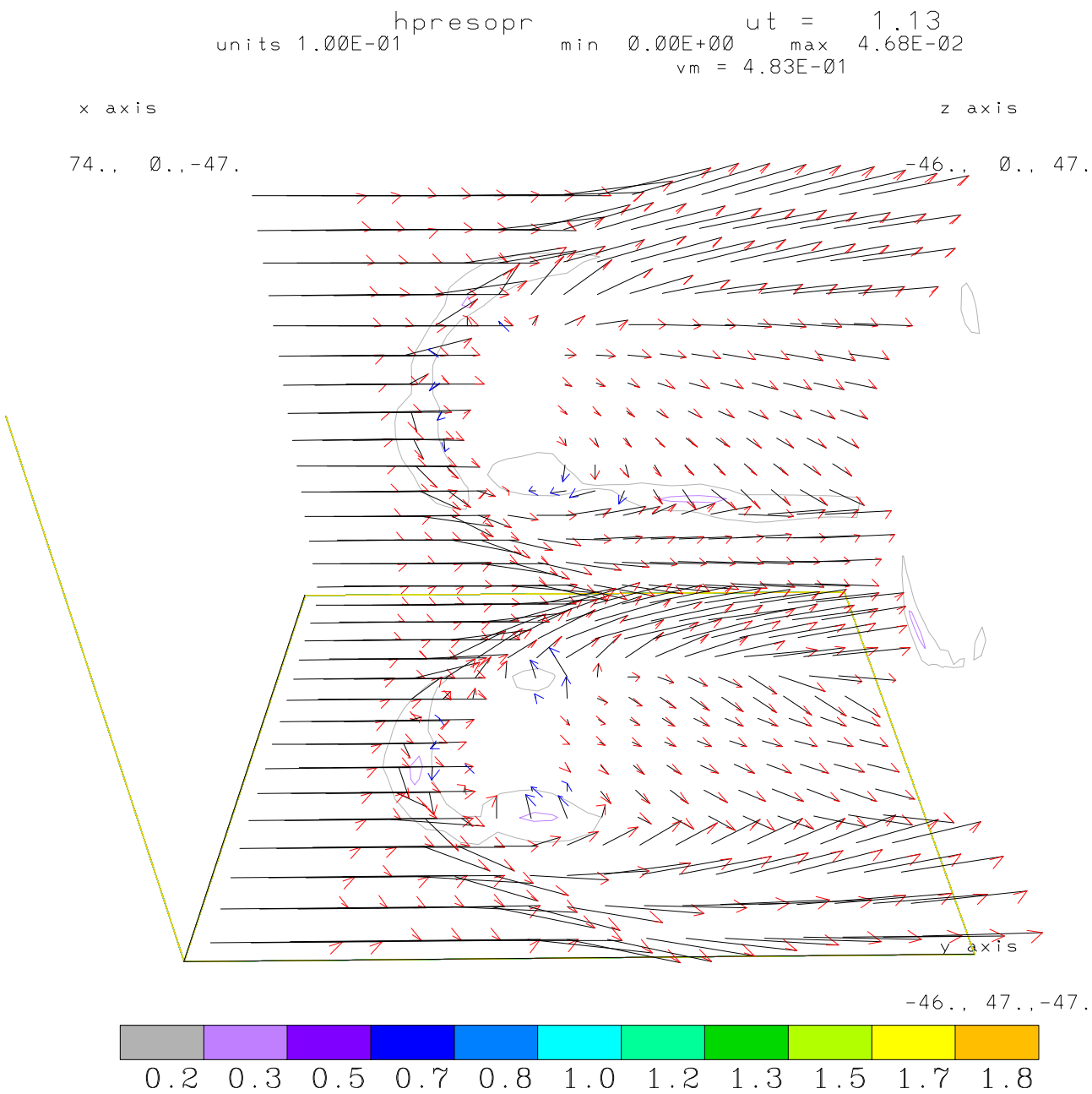

q den vh
ut = 1.13
units
min 0.00E+00
max 7.55E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0

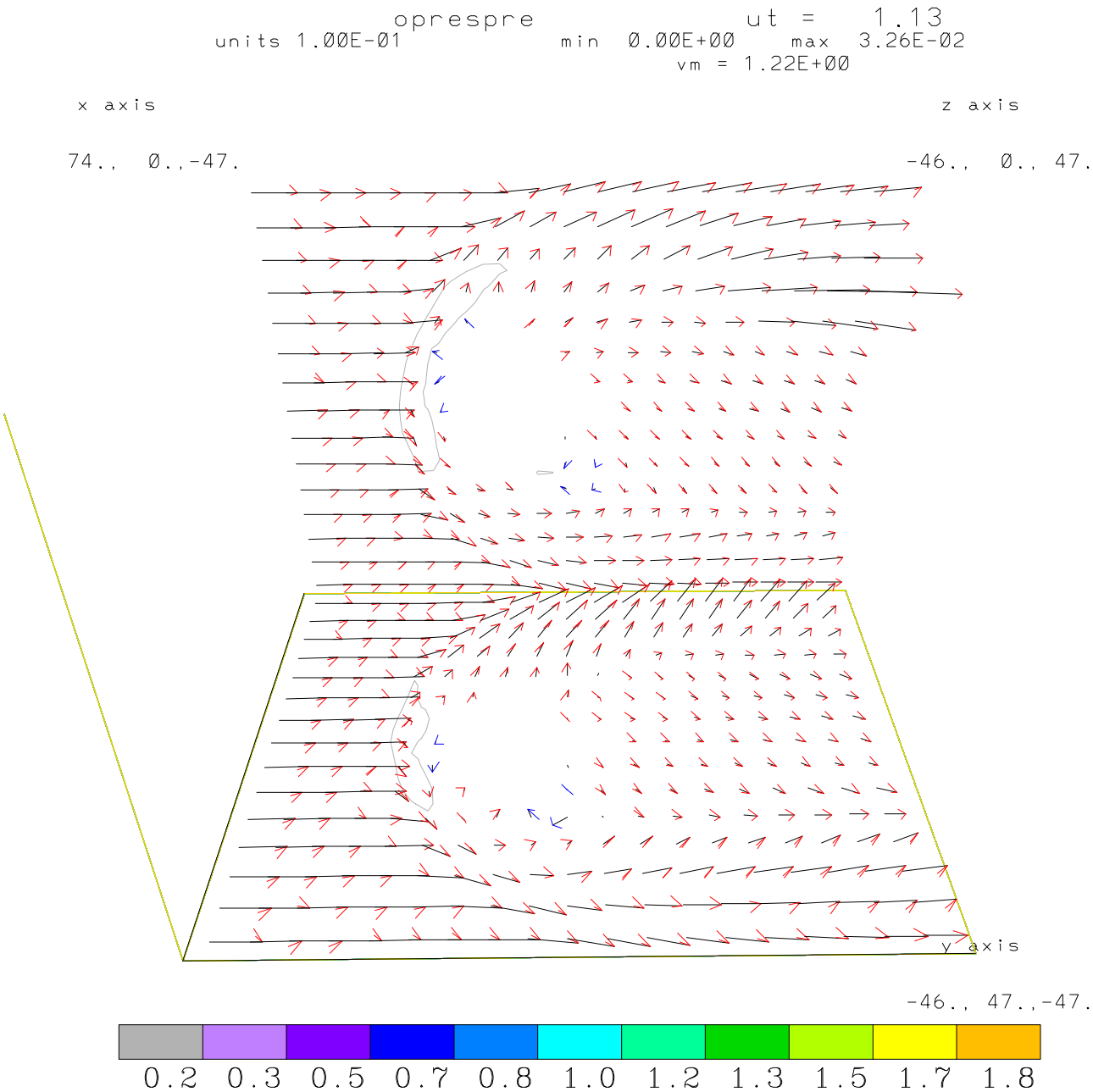

h den vo ut = 1.13
units min 0.00E+00 max 8.60E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

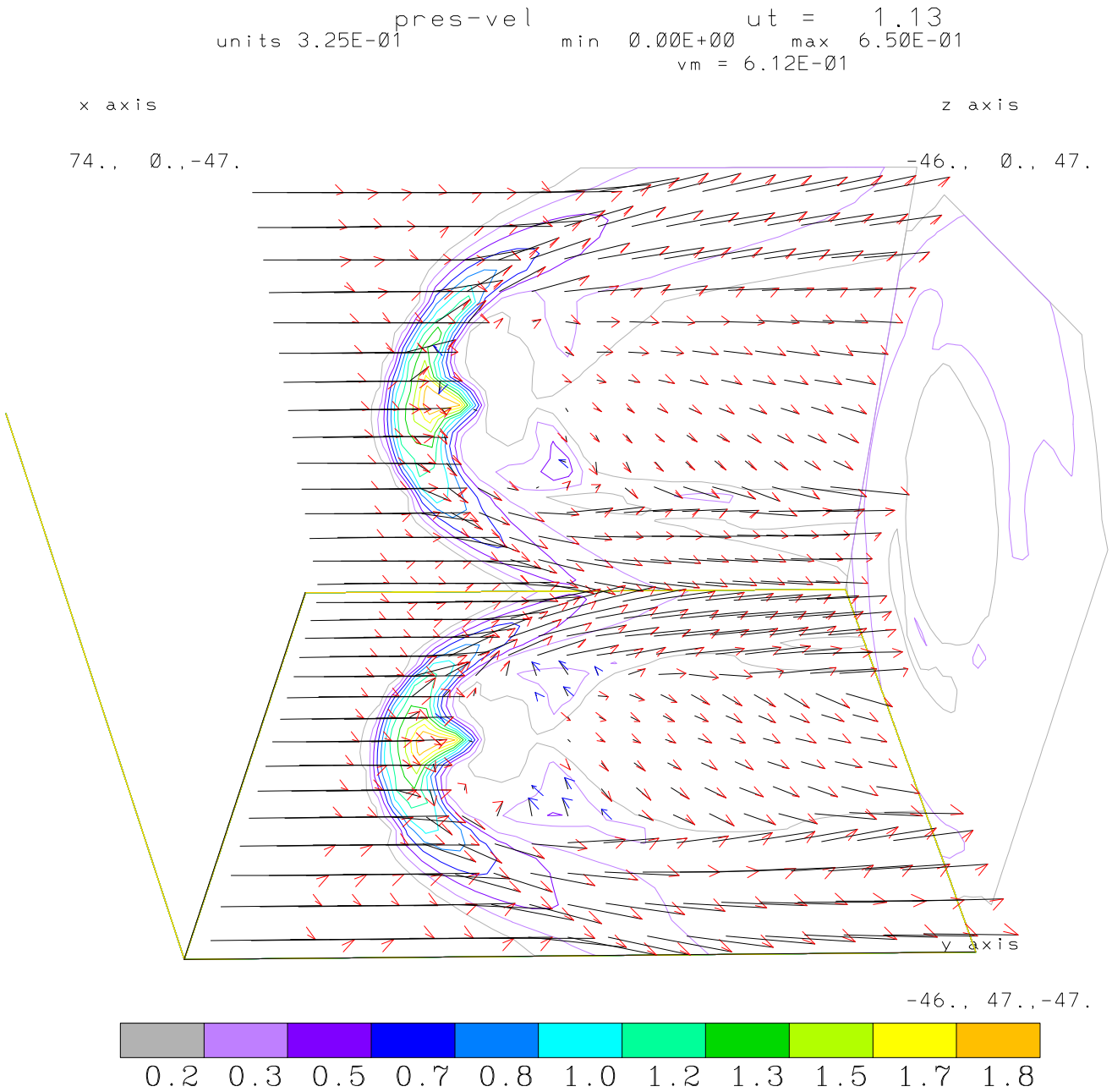

o den vt
ut = 1.13
units
min 0.00E+00
max 7.30E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

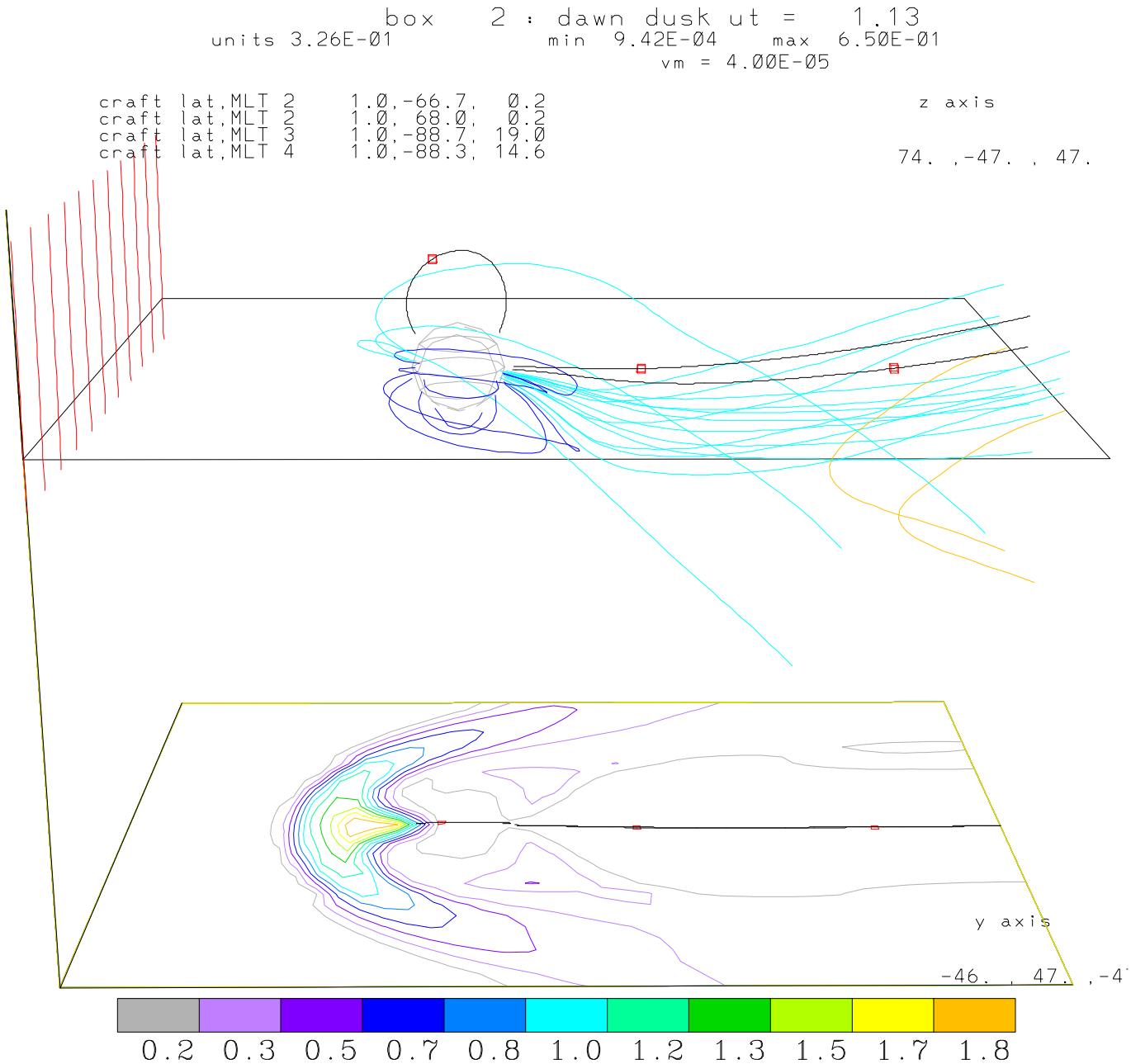

tden vbi
ut = 1.13
units
min 0.00E+00
max 8.62E+00
vm = 7.74E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 6.15E-01
vm = 1.07E+00
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 4.68E-02
vm = 4.83E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.13
units 1.00E-01
min 0.00E+00
max 3.26E-02
vm = 1.22E+00
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

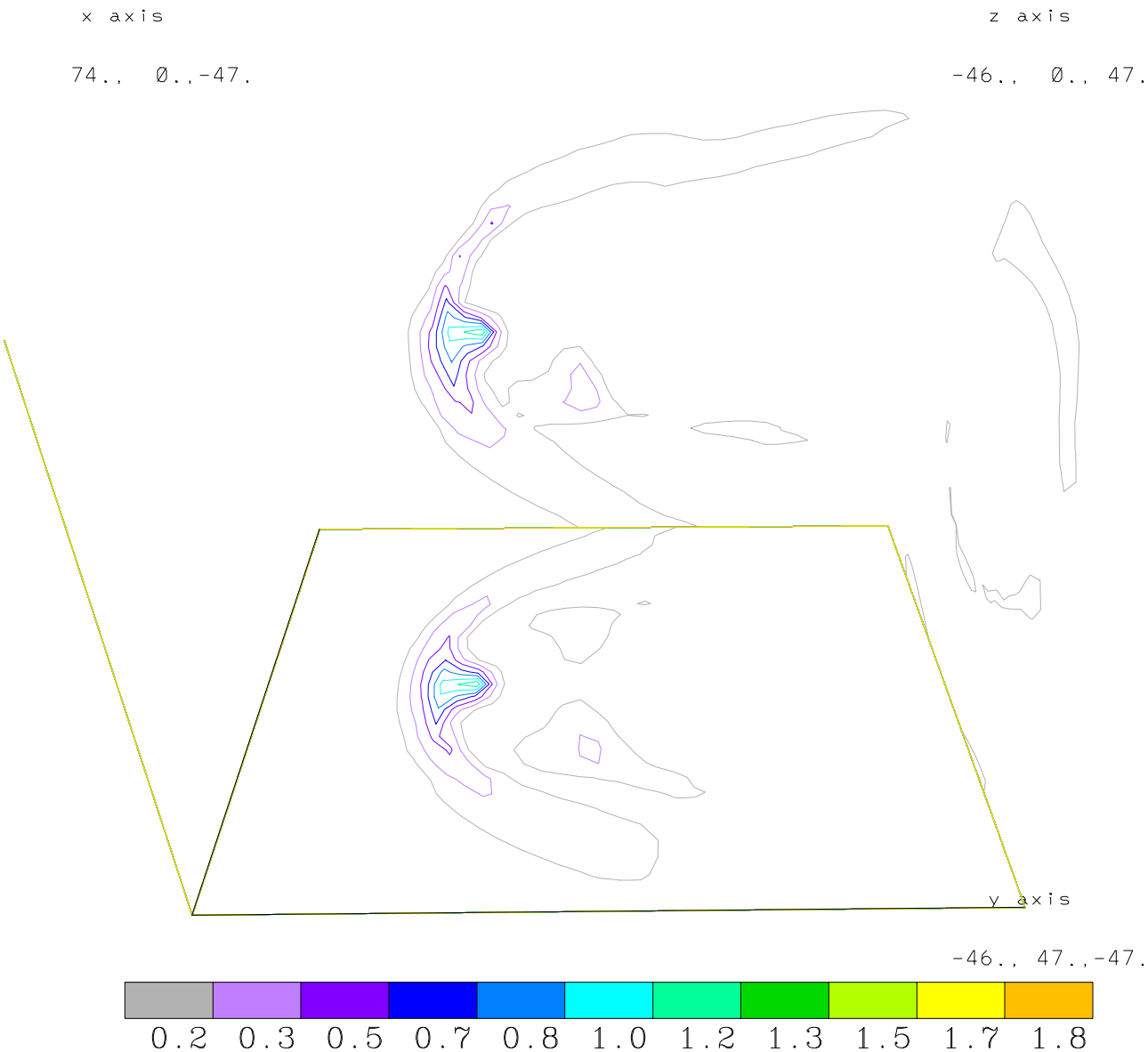

pres-vel
ut = 1.13
units 3.25E-01
min 0.00E+00
max 6.50E-01
vm = 6.12E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

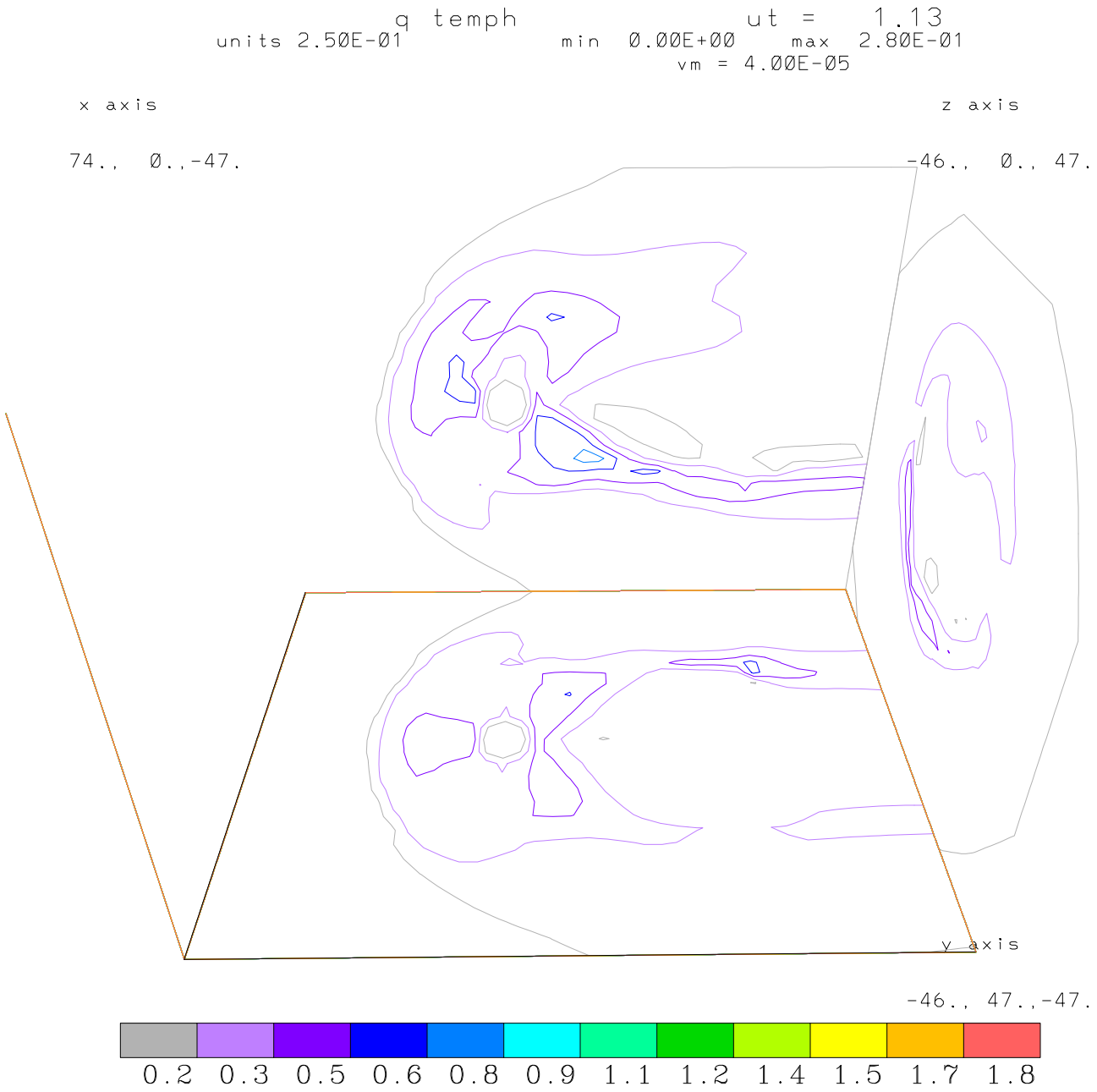

box 2 : dawn dusk ut = 1.13
units 3.26E-01
min 9.42E-04 max 6.50E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-66.7, 0.2
craft lat,MLT 2 1.0, 68.0, 0.2
craft lat,MLT 3 1.0,-88.7, 19.0
craft lat,MLT 4 1.0,-88.3, 14.6
z axis
74. ,-47. , 47.
y axis
-46. , 47. ,-4
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

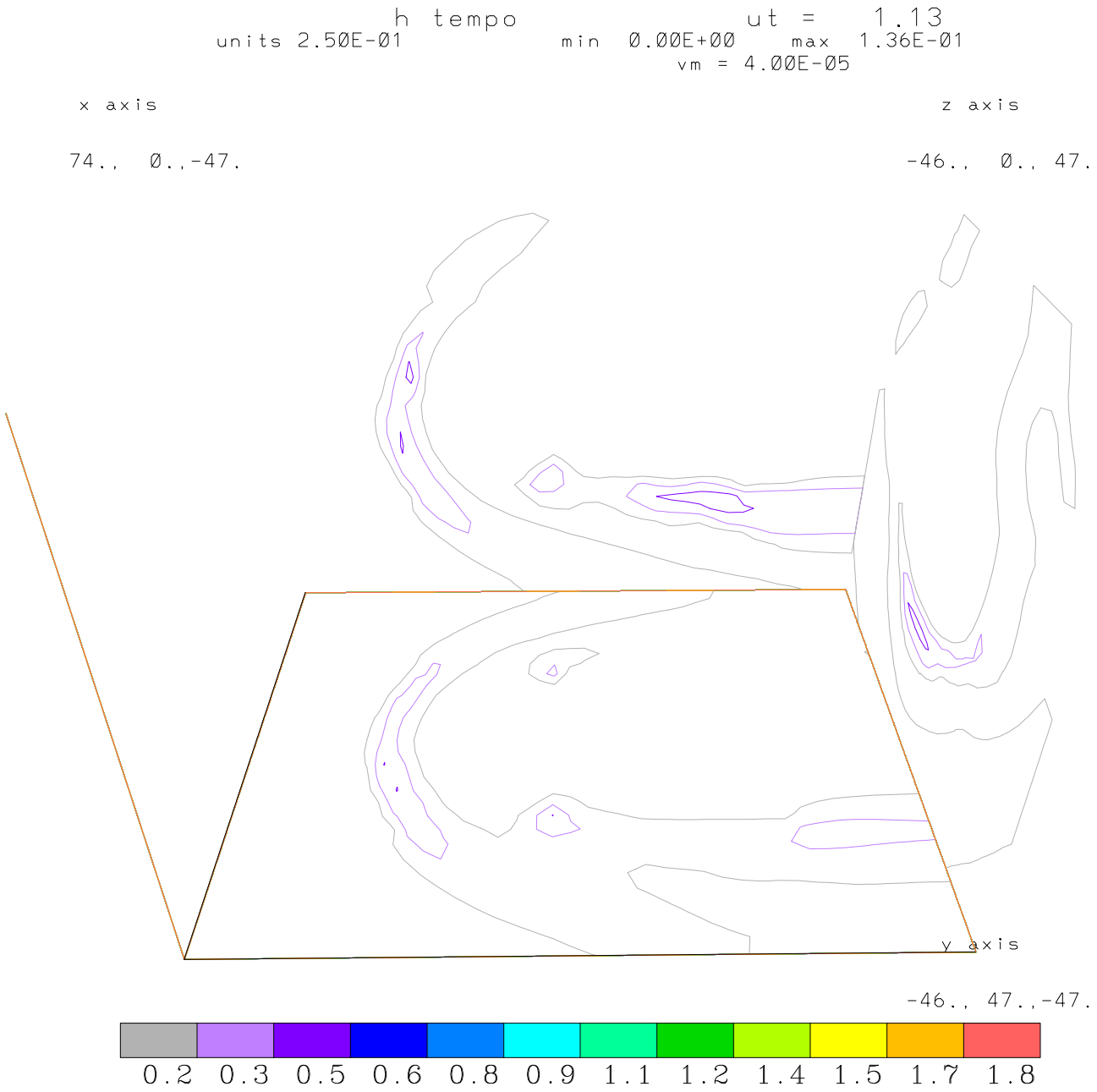
epresq t ut = 1.13

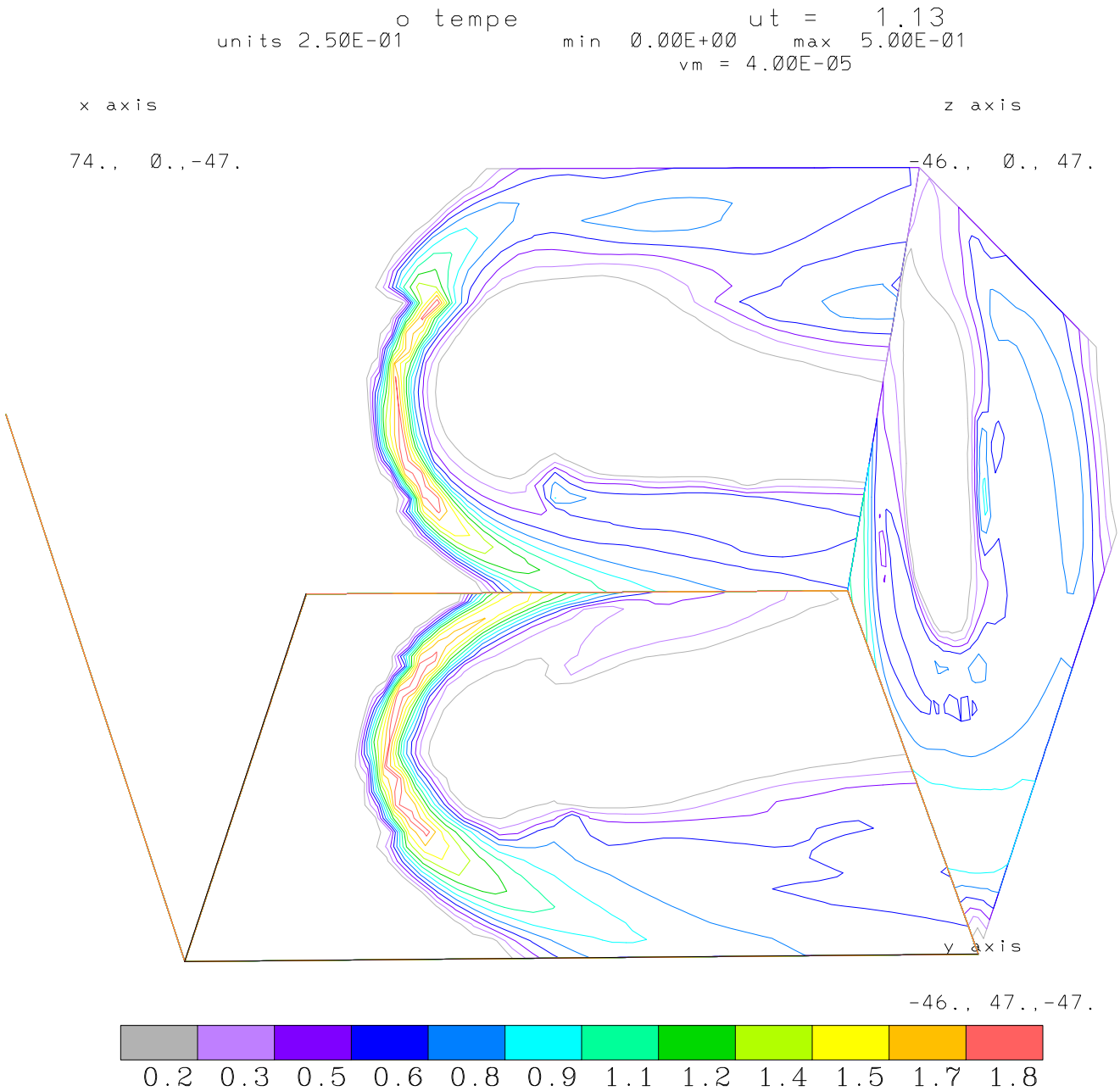
units 2.00E-01 min 0.00E+00 max 2.64E-01

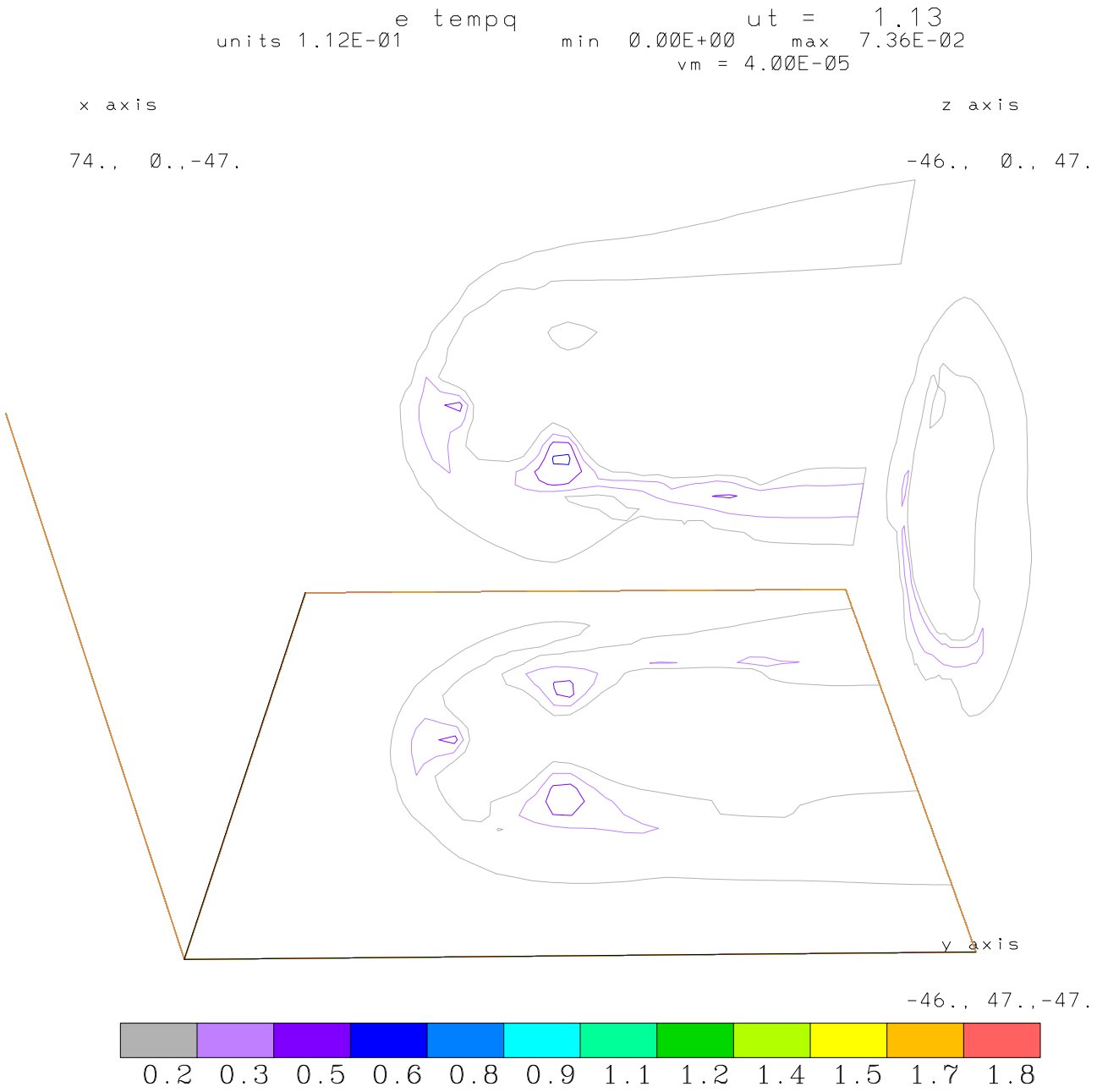
vm = 4.00E-05

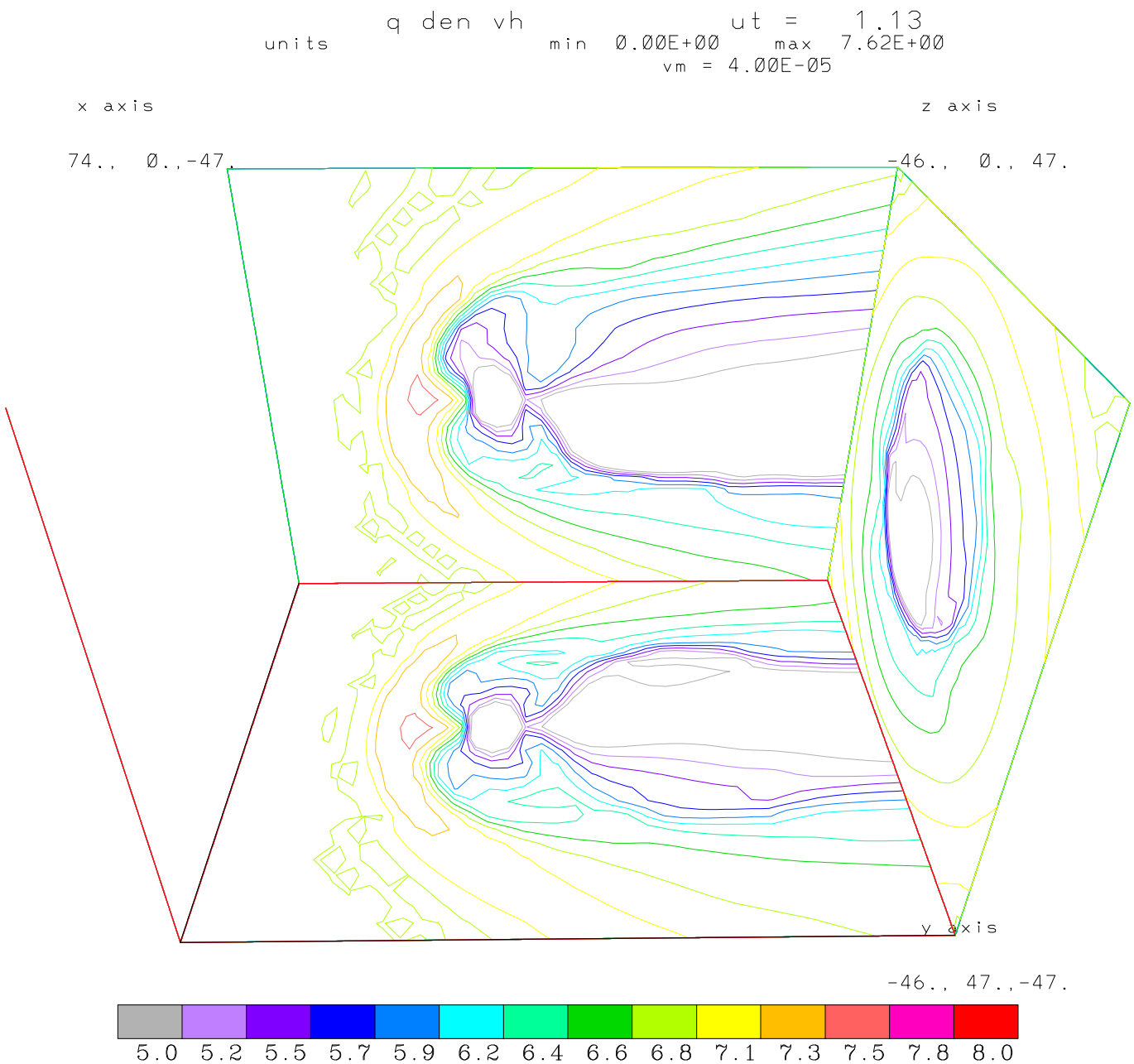


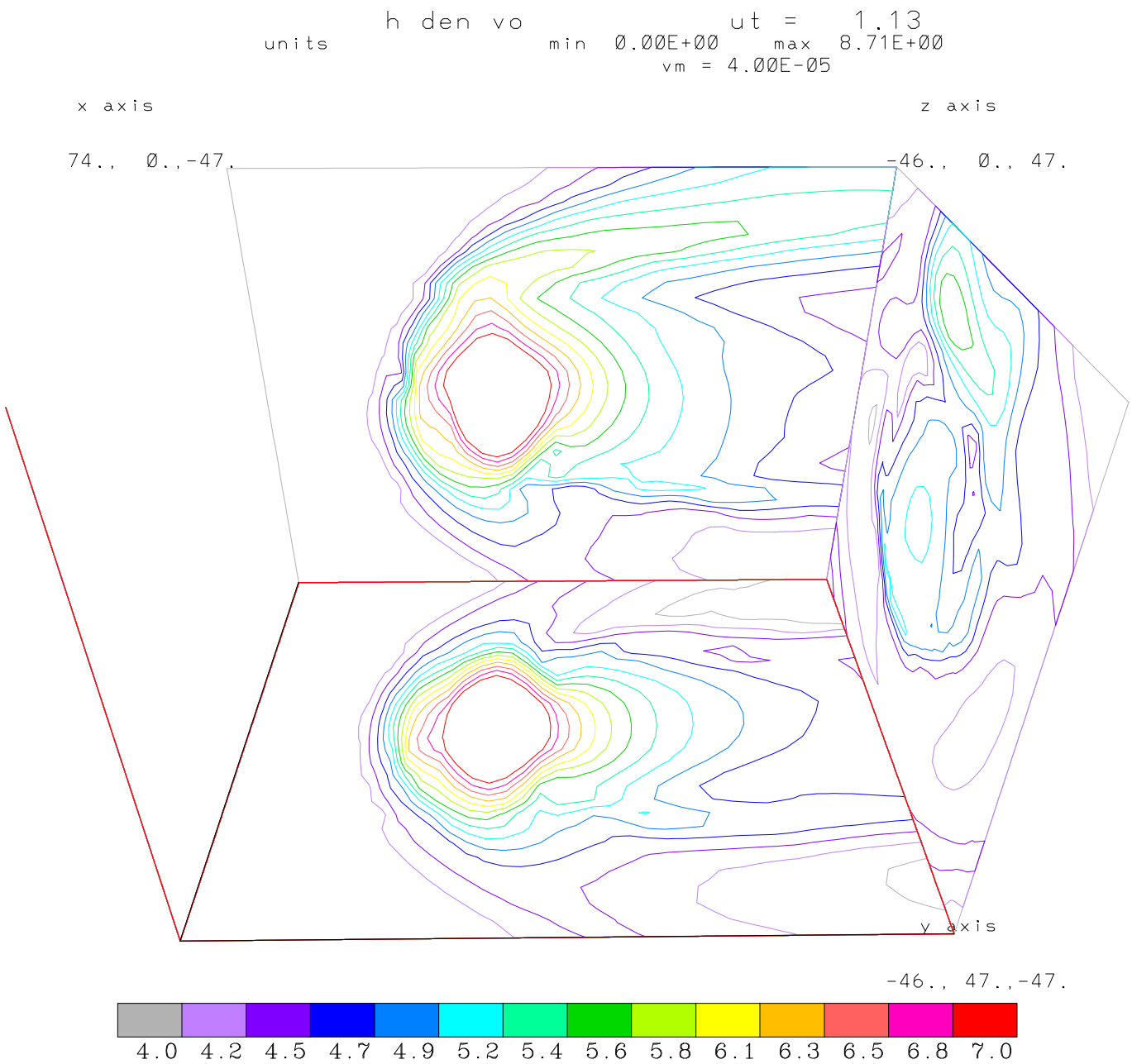

q temph
ut = 1.13
units 2.50E-01
min 0.00E+00
max 2.80E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

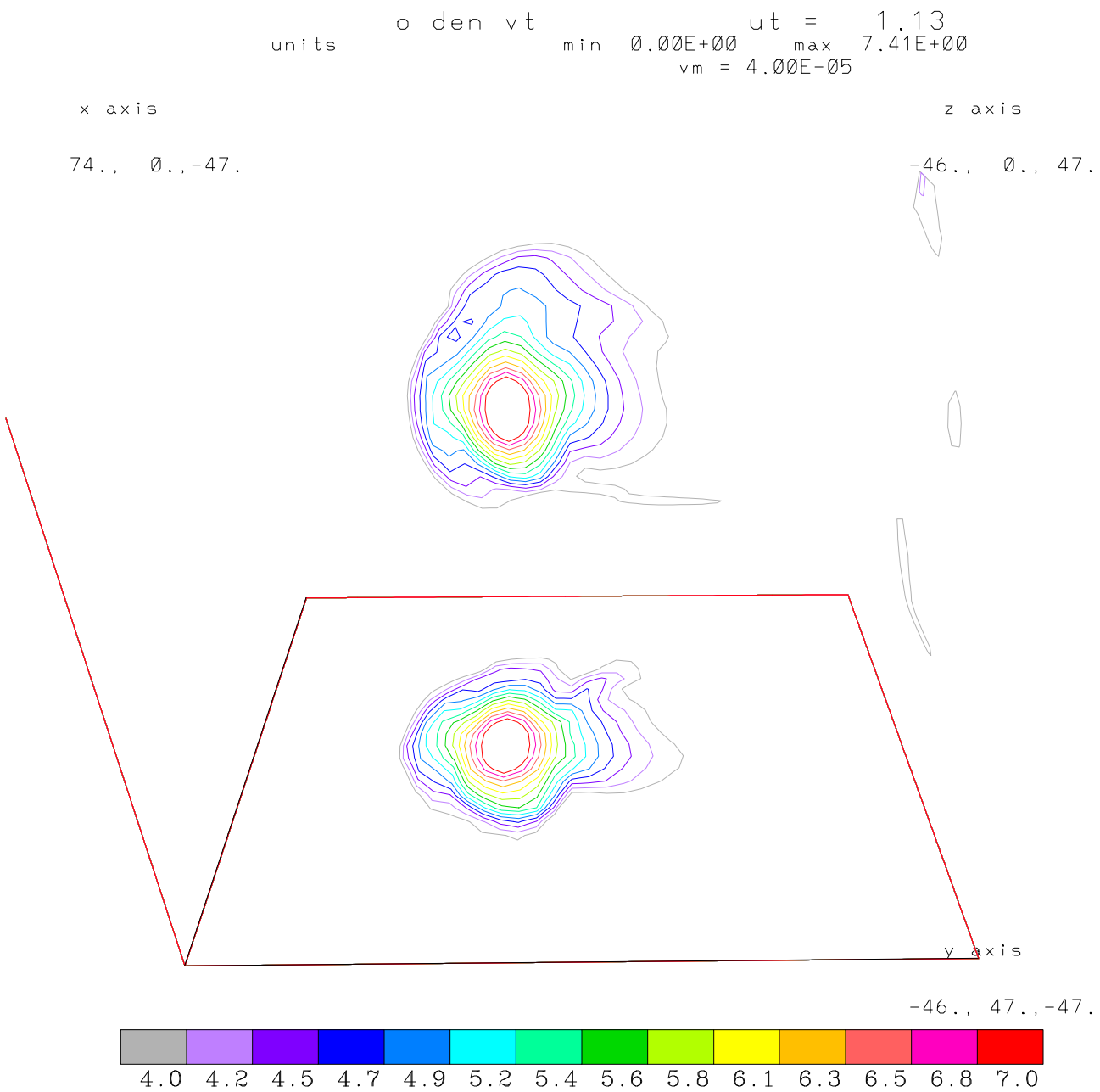

h tempo
ut = 1.13
units 2.50E-01
min 0.00E+00
max 1.36E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

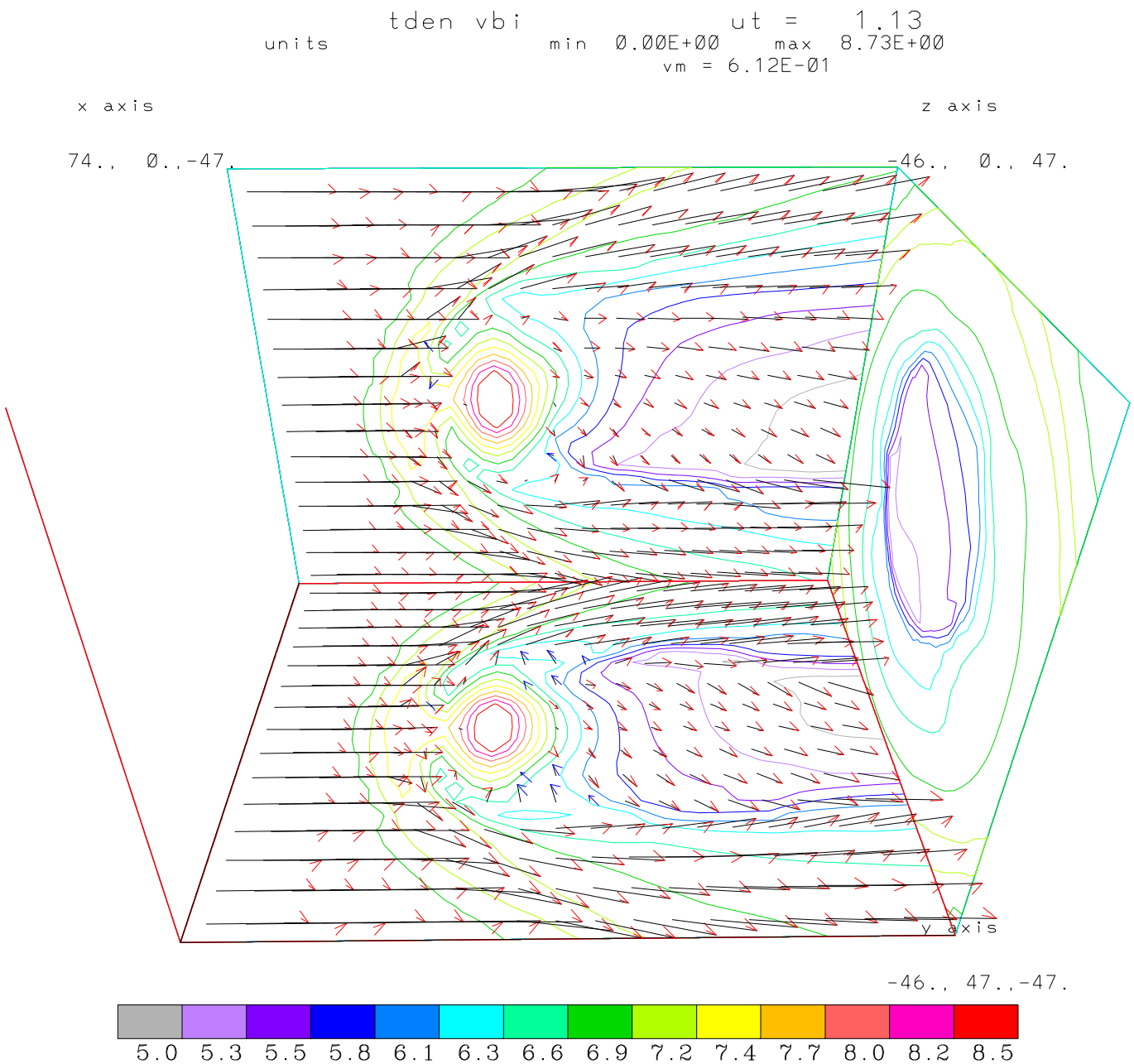

o tempe
ut = 1.13
units 2.50E-01
min 0.00E+00
max 5.00E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

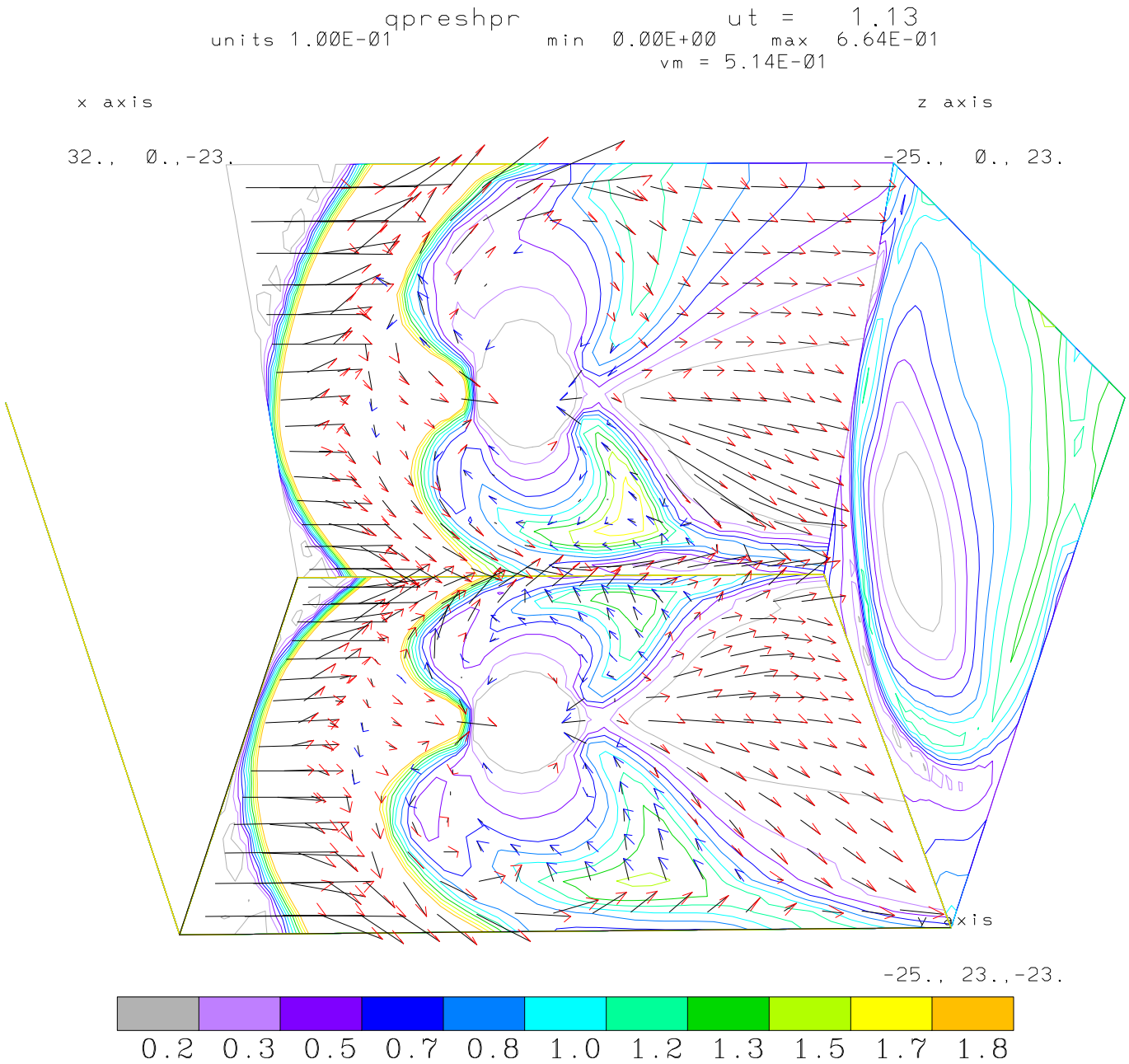

e tempq
ut = 1.13
units 1.12E-01
min 0.00E+00
max 7.36E-02
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


q den vh
ut = 1.13
units
min 0.00E+00
max 7.62E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 1.13
units min 0.00E+00 max 8.71E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


o den vt
ut = 1.13
units
min 0.00E+00
max 7.41E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.13
units
min 0.00E+00
max 8.73E+00
vm = 6.12E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5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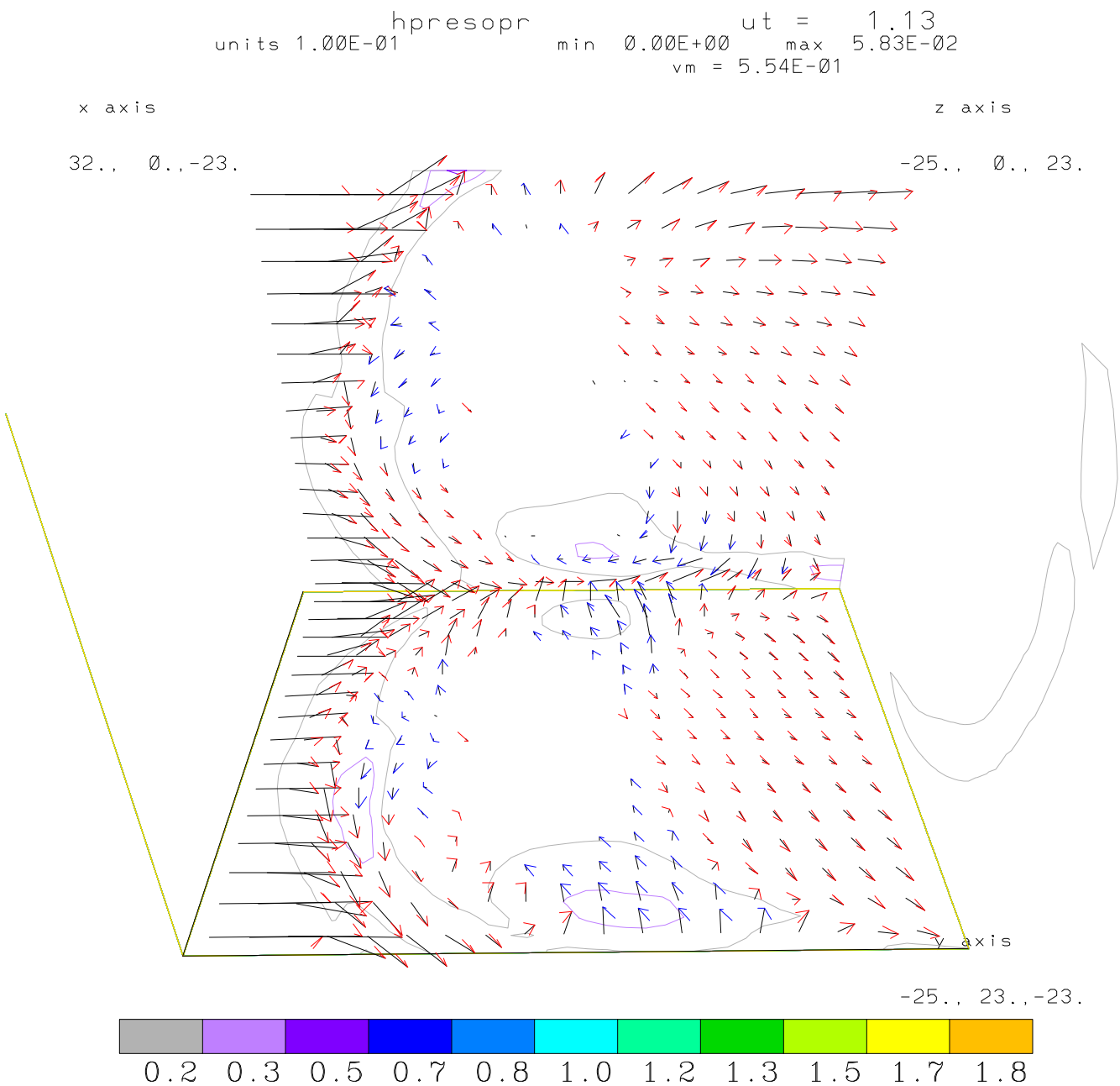
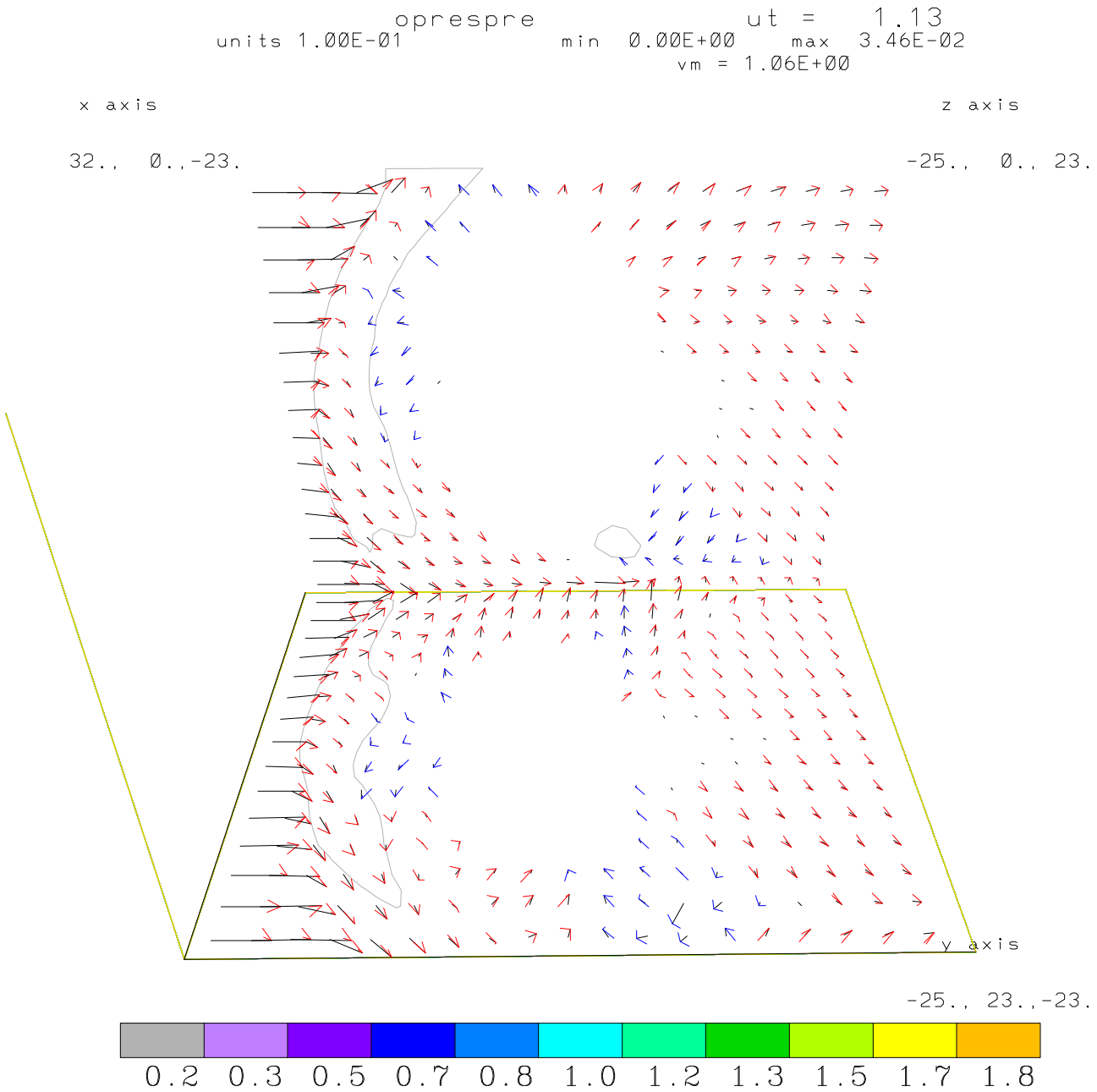
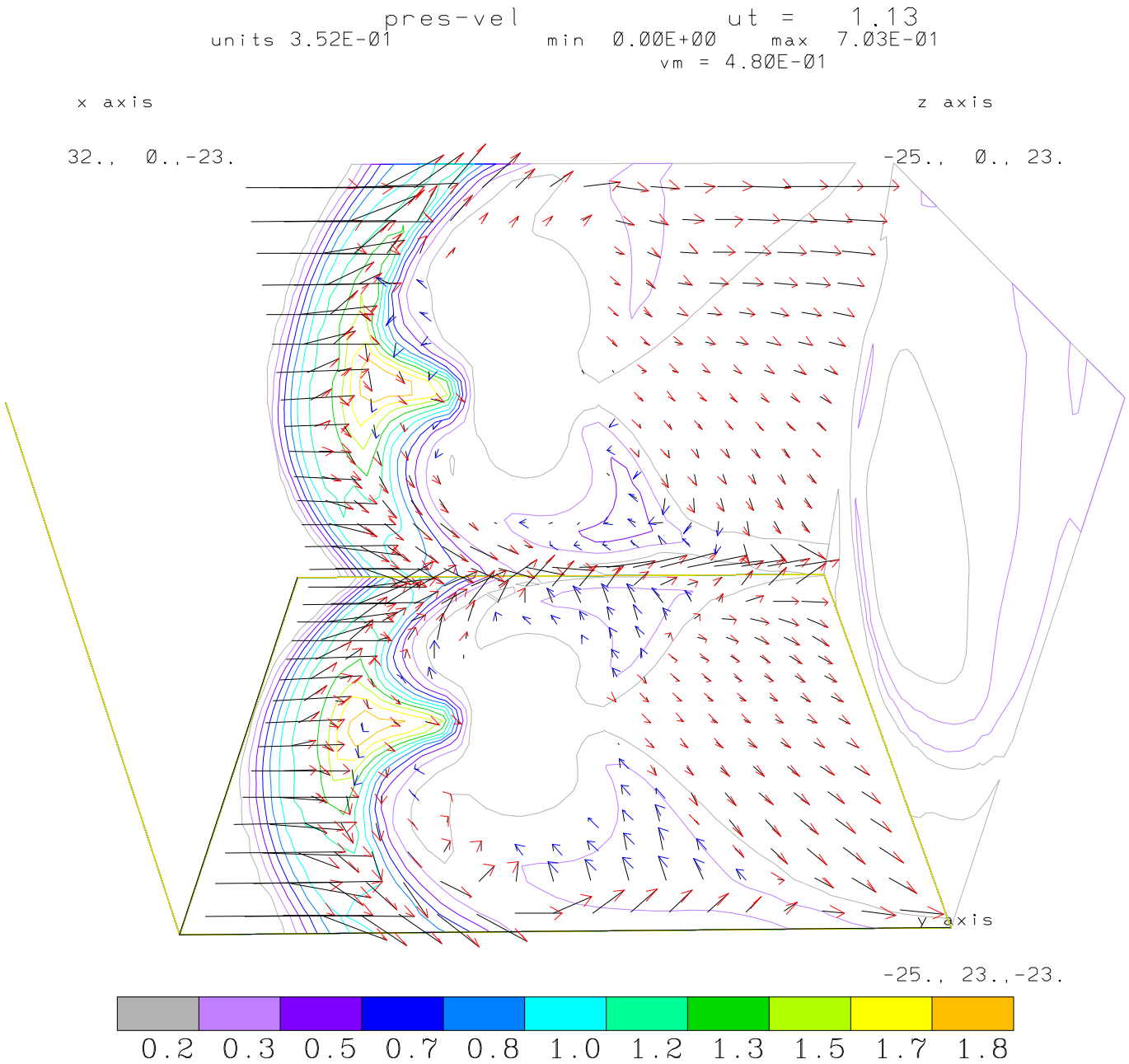
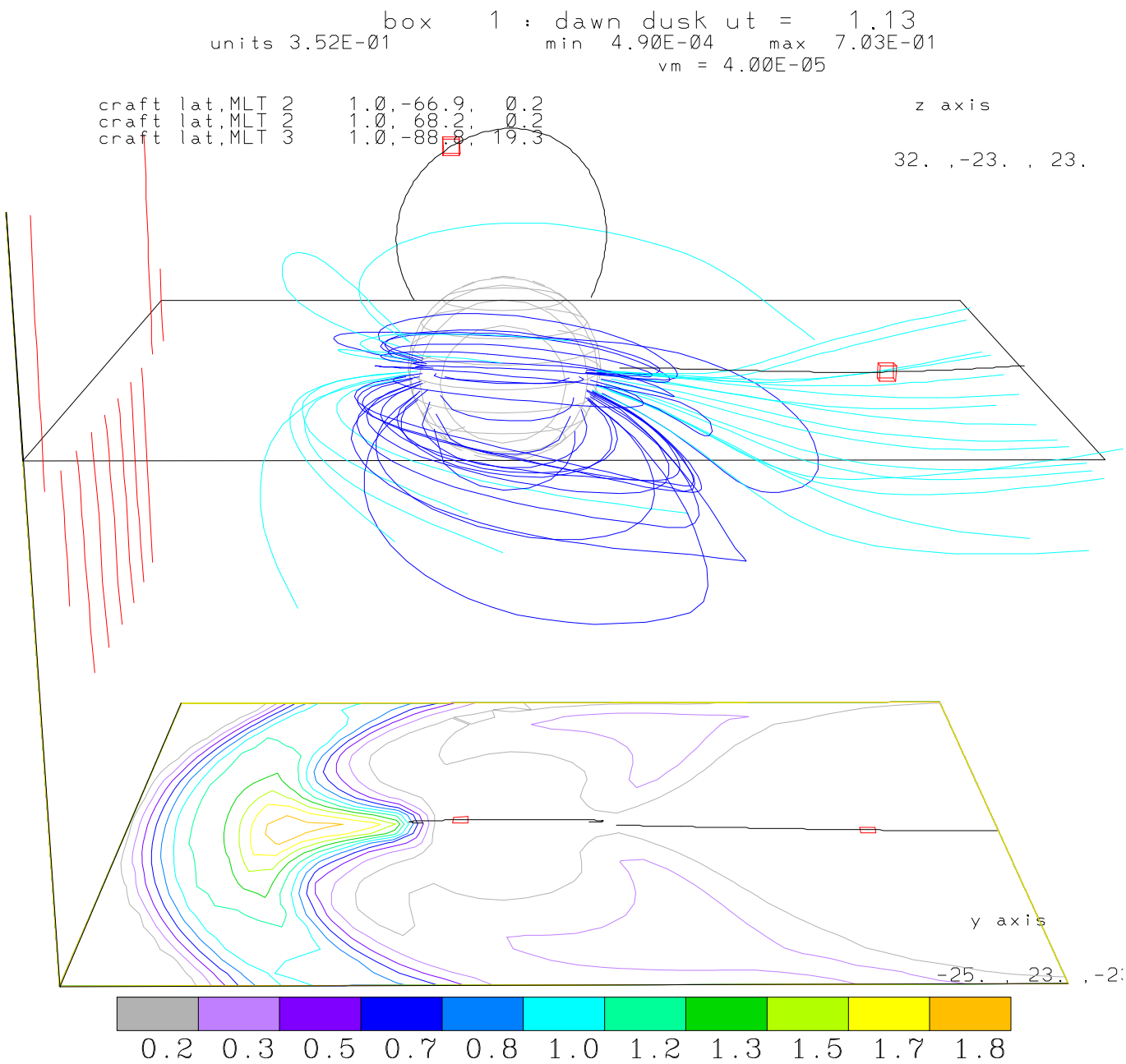
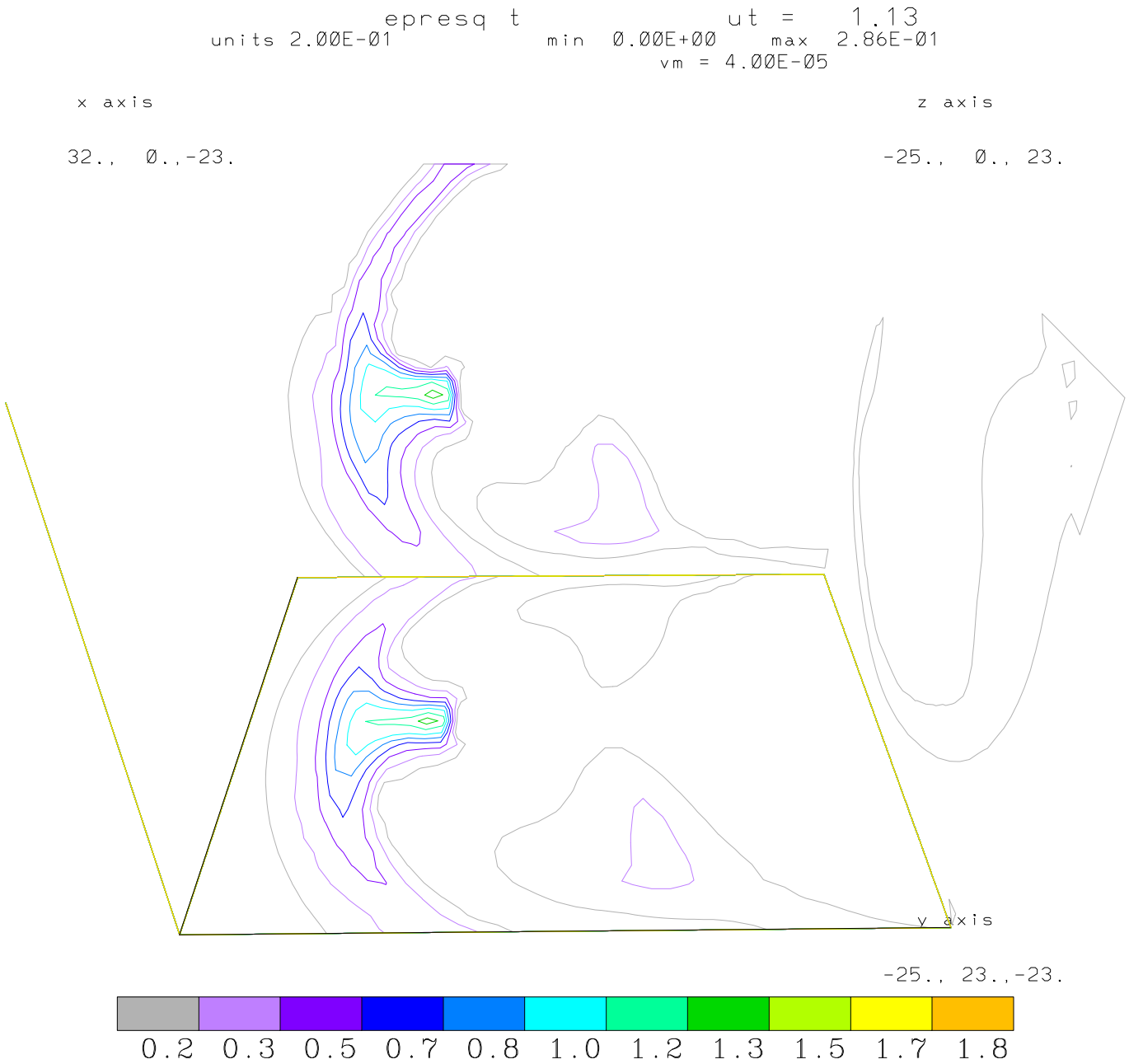
ut = 1.13
units 1.00E-01
min 0.00E+00
max 6.64E-01
vm = 5.14E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

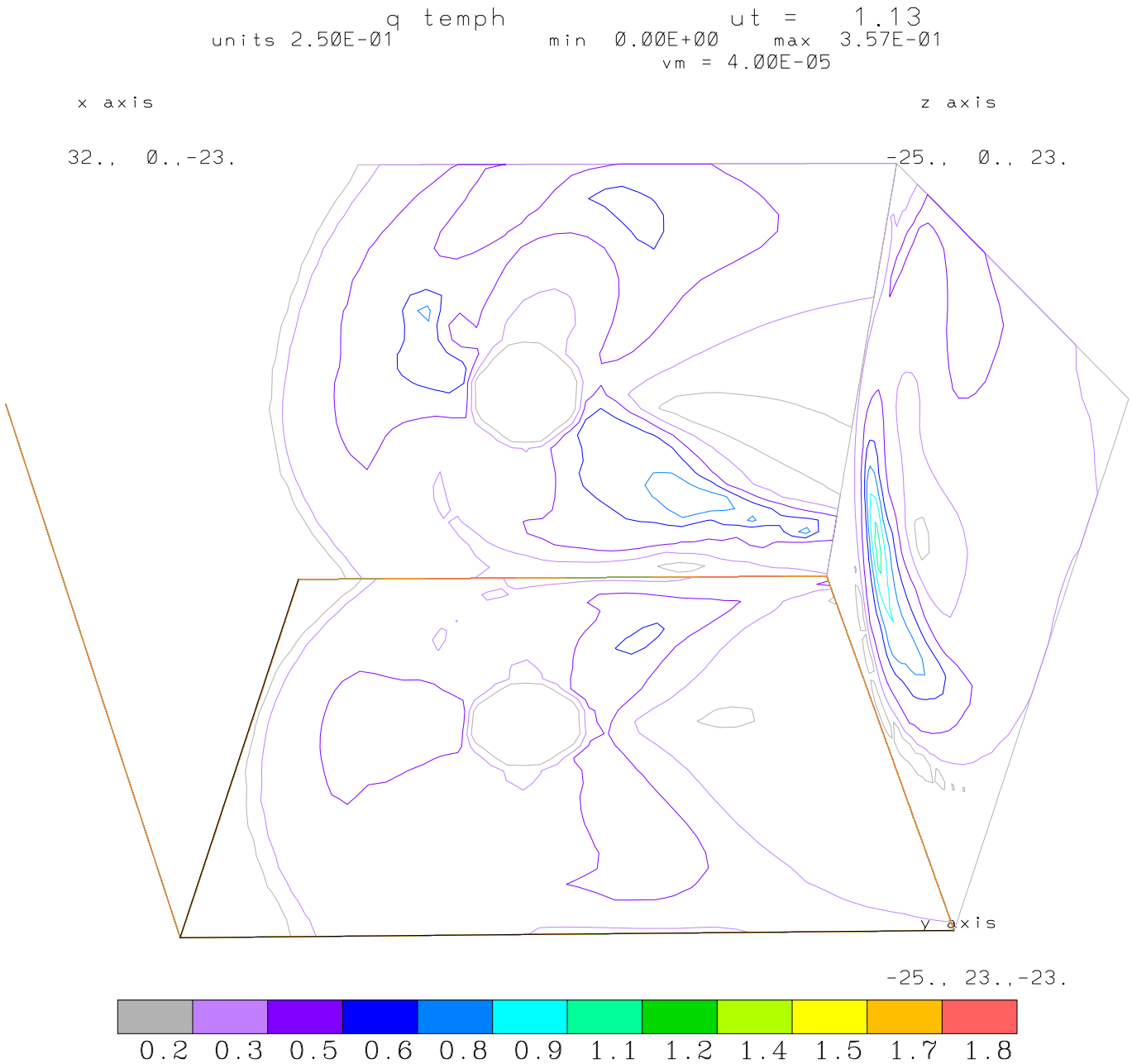

hpresopr
ut = 1.13
units 1.00E-01
min 0.00E+00
max 5.83E-02
vm = 5.54E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.13
units 1.00E-01
min 0.00E+00
max 3.46E-02
vm = 1.06E+00
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.13
units 3.52E-01
min 0.00E+00
max 7.03E-01
vm = 4.80E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 1 : dawn dusk ut = 1.13
units 3.52E-01
min 4.90E-04
max 7.03E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-66.9, 0.2
craft lat,MLT 2 1.0, 68.2, 0.2
craft lat,MLT 3 1.0,-88.8, 19.3
z axis
32. ,-23. , 23.
y axis
-25. , 23. ,-2
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


epresq t
ut = 1.13
units 2.00E-01
min 0.00E+00
max 2.86E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8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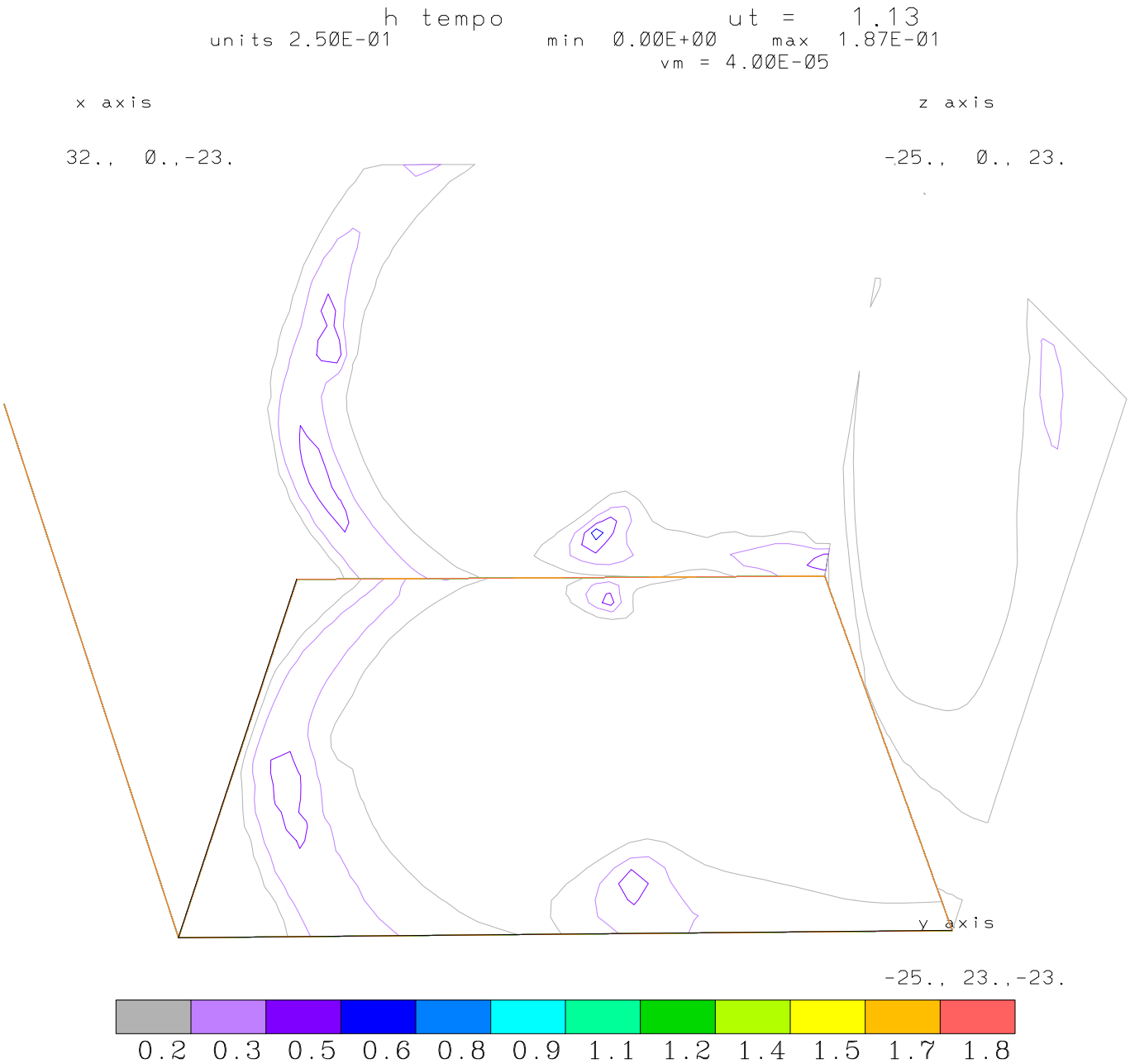
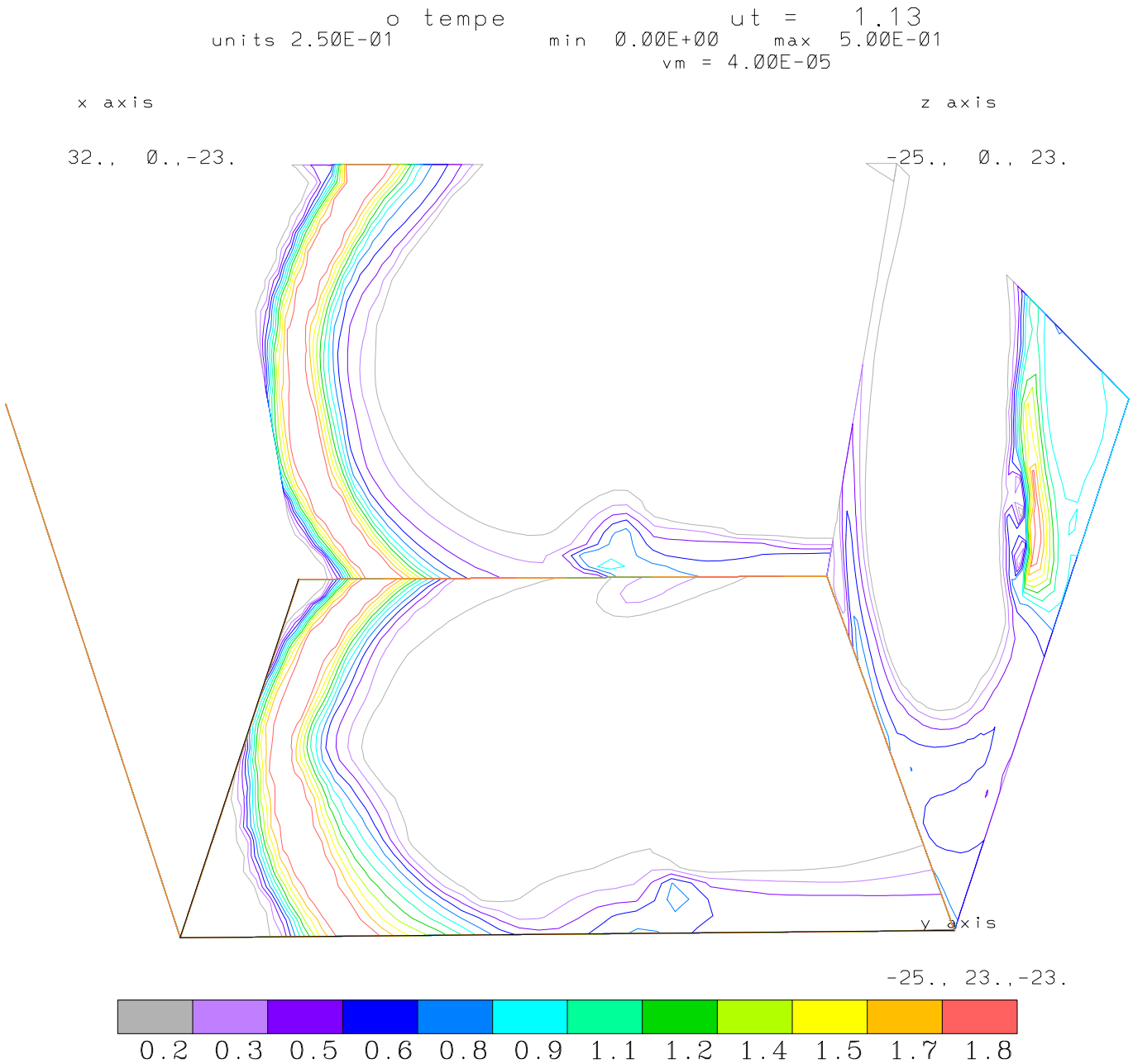
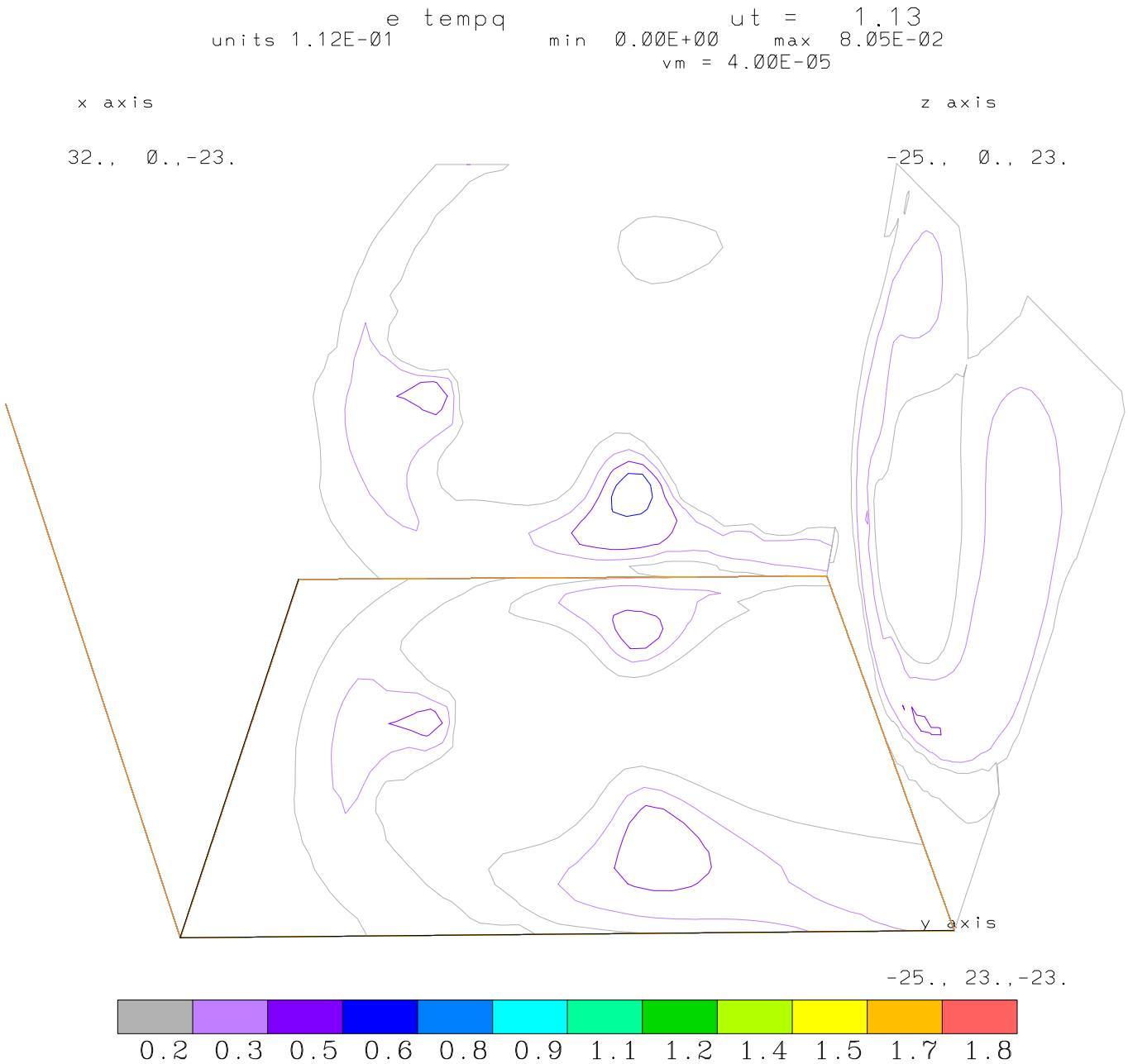
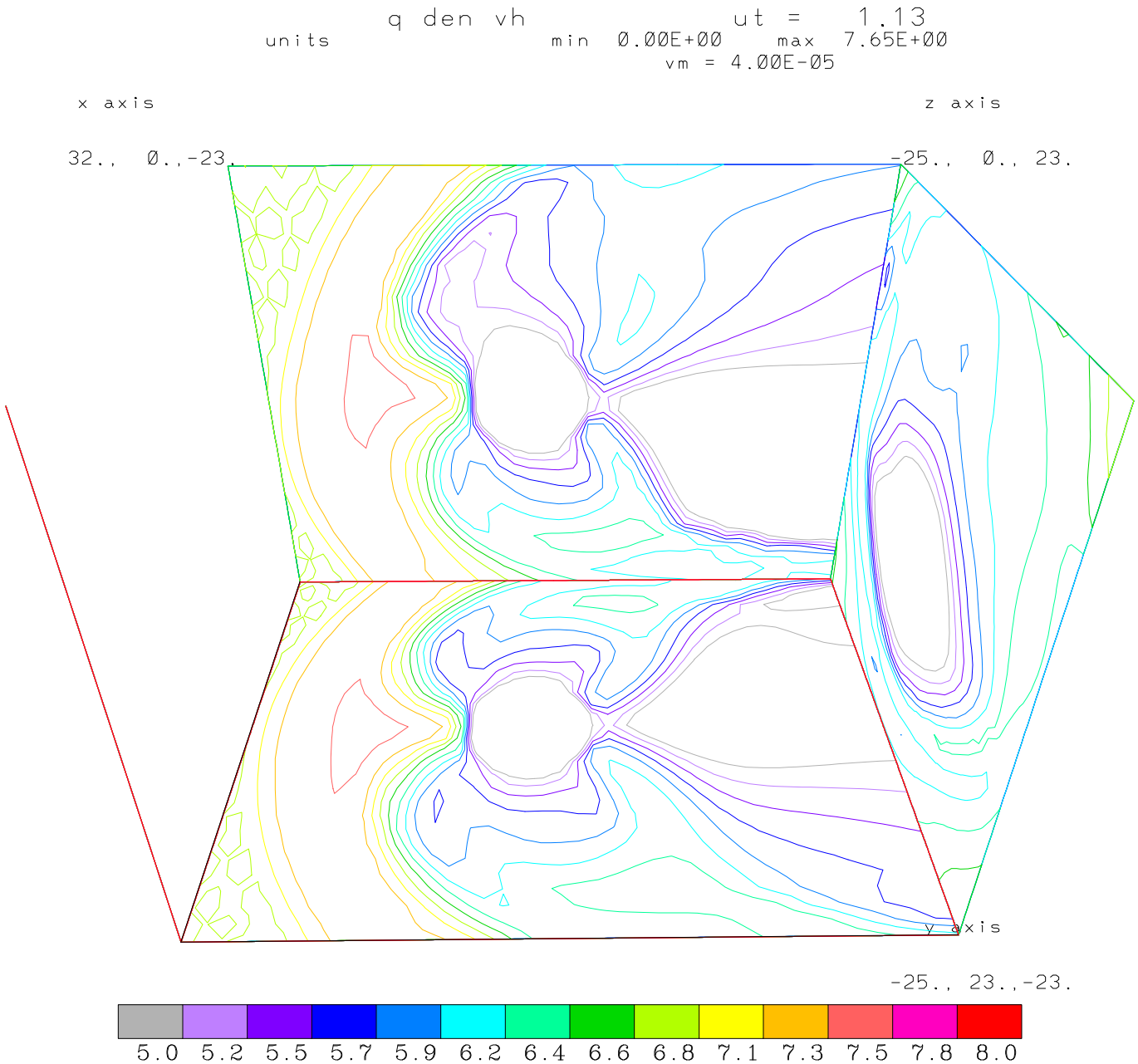
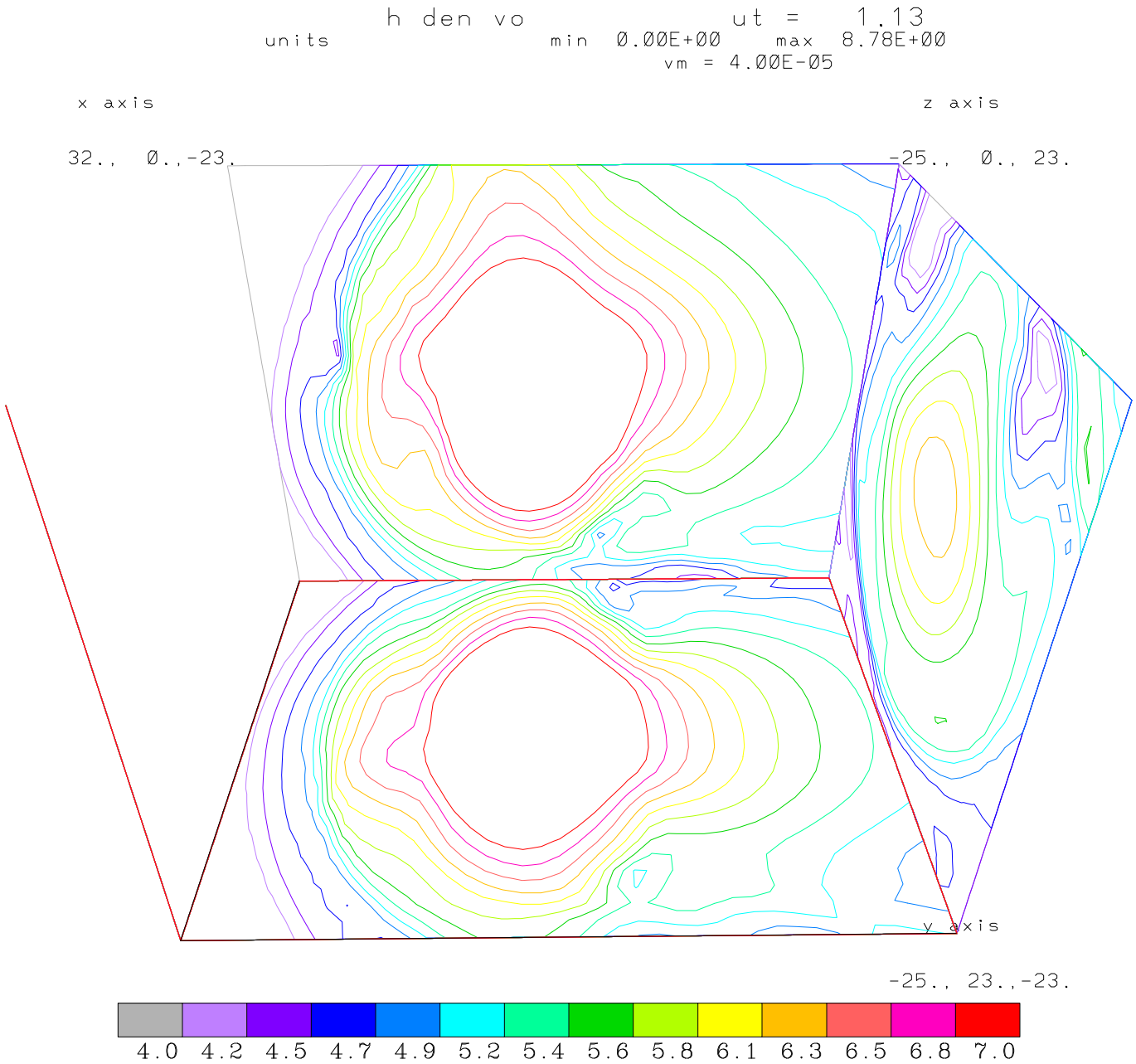
ut = 1.13
units 2.50E-01
min 0.00E+00
max 3.57E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


h tempo
ut = 1.13
units 2.50E-01
min 0.00E+00
max 1.87E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.13
units 2.50E-01
min 0.00E+00
max 5.00E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


e tempq
ut = 1.13
units 1.12E-01
min 0.00E+00
max 8.05E-02
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


q den vh
ut = 1.13
units
min 0.00E+00
max 7.65E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0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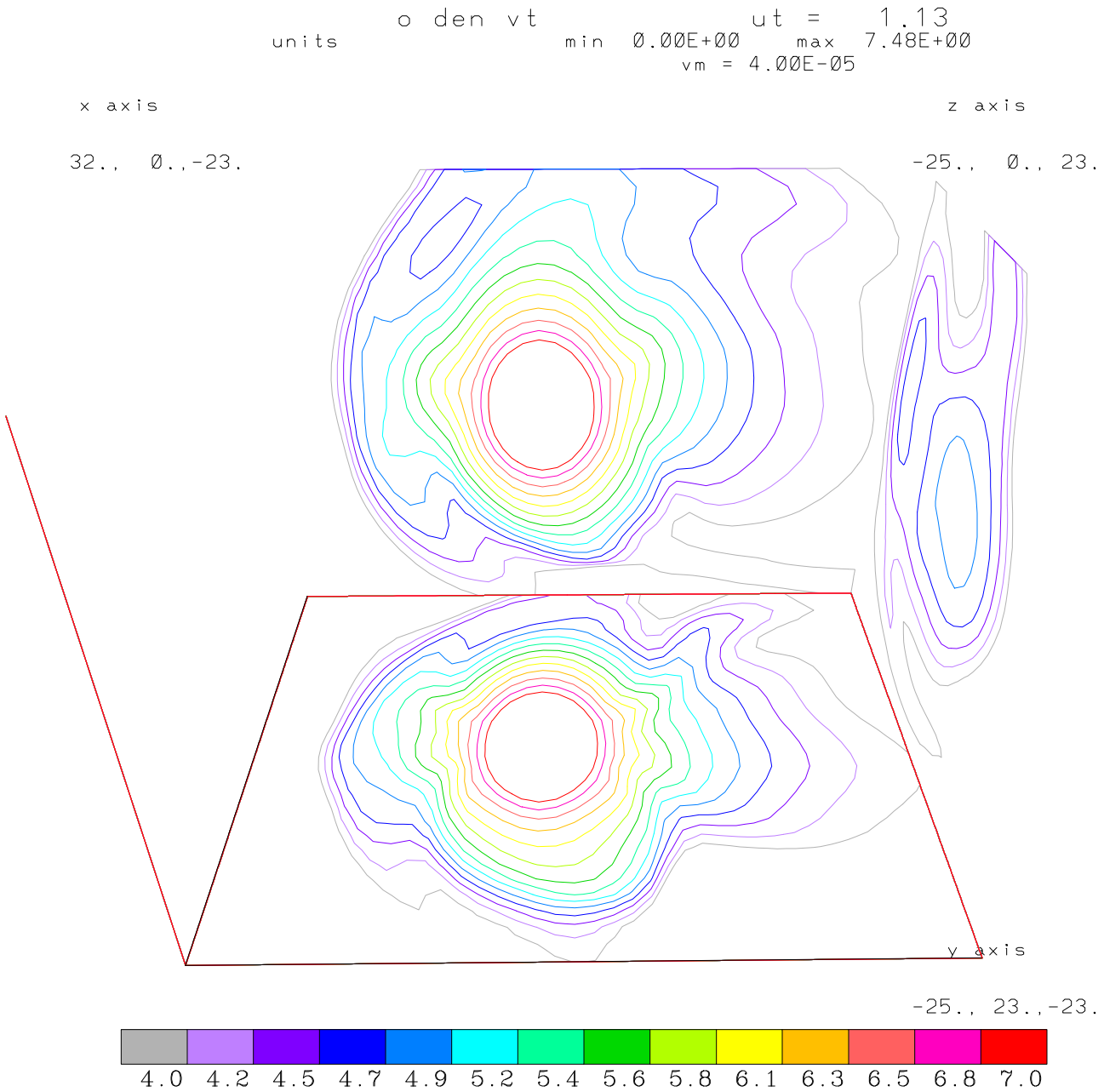
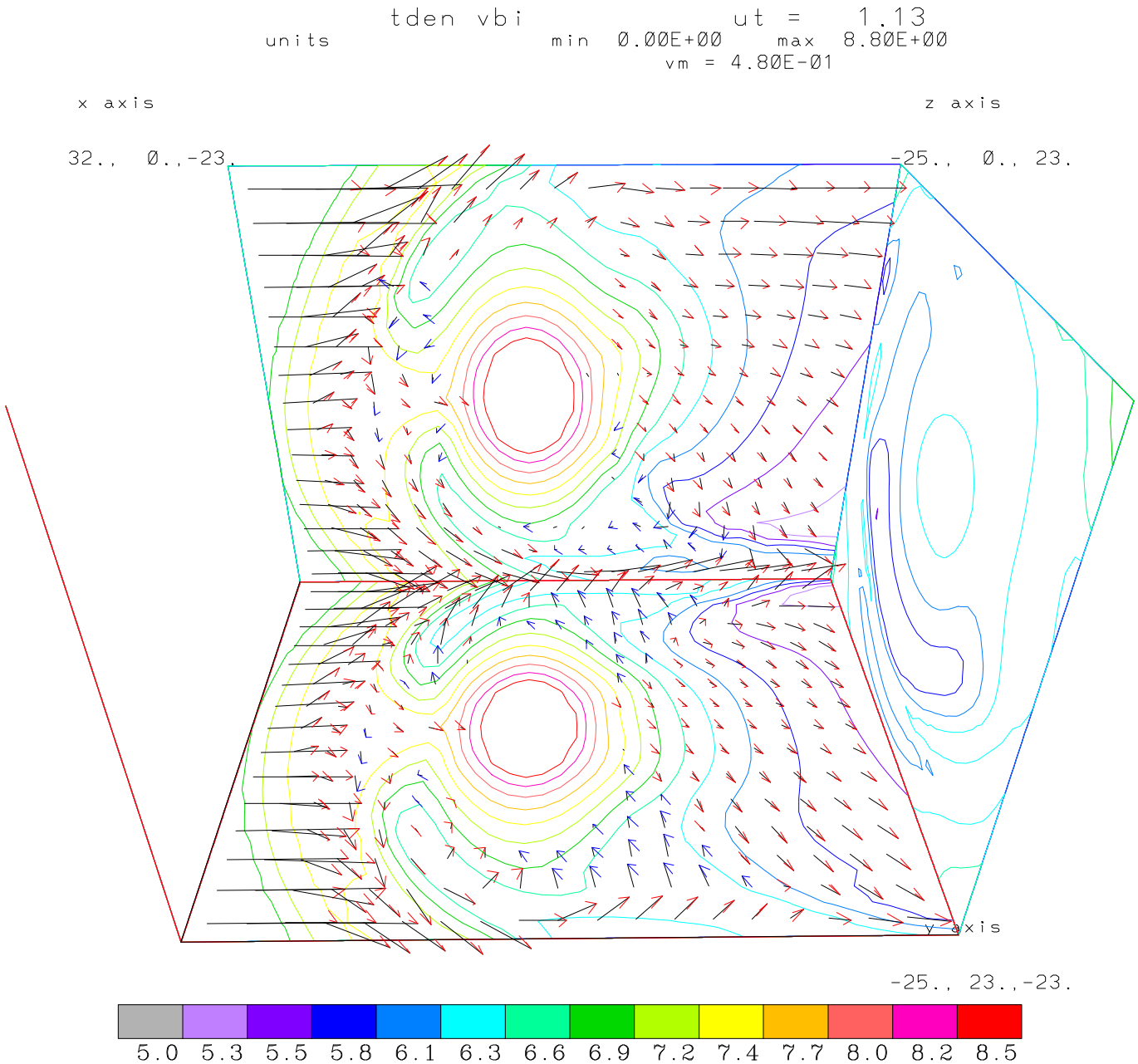
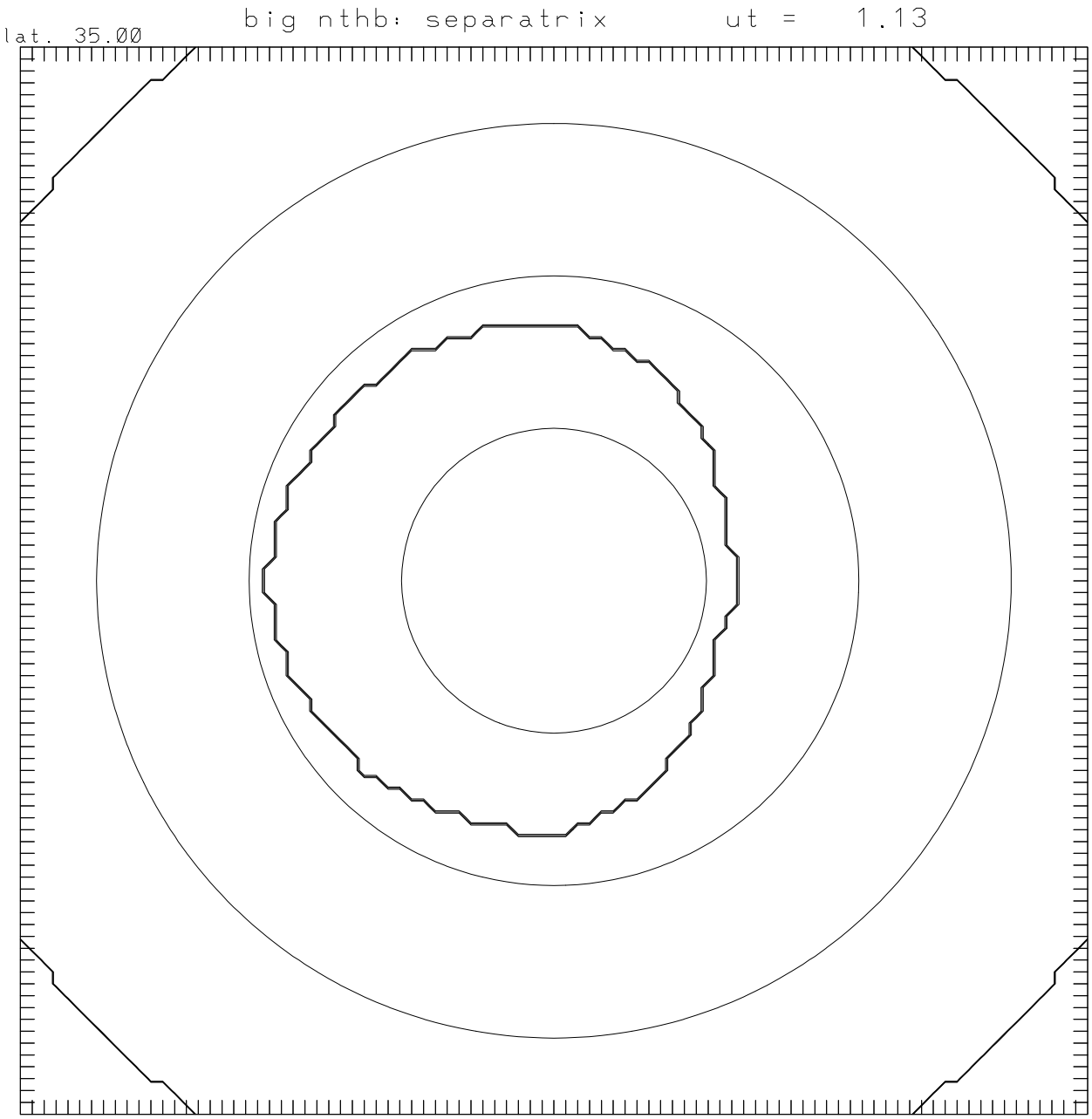
units min 0.00E+00 max 8.78E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


o den vt
ut = 1.13
units
min 0.00E+00
max 7.48E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.13
units
min 0.00E+00
max 8.80E+00
vm = 4.80E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5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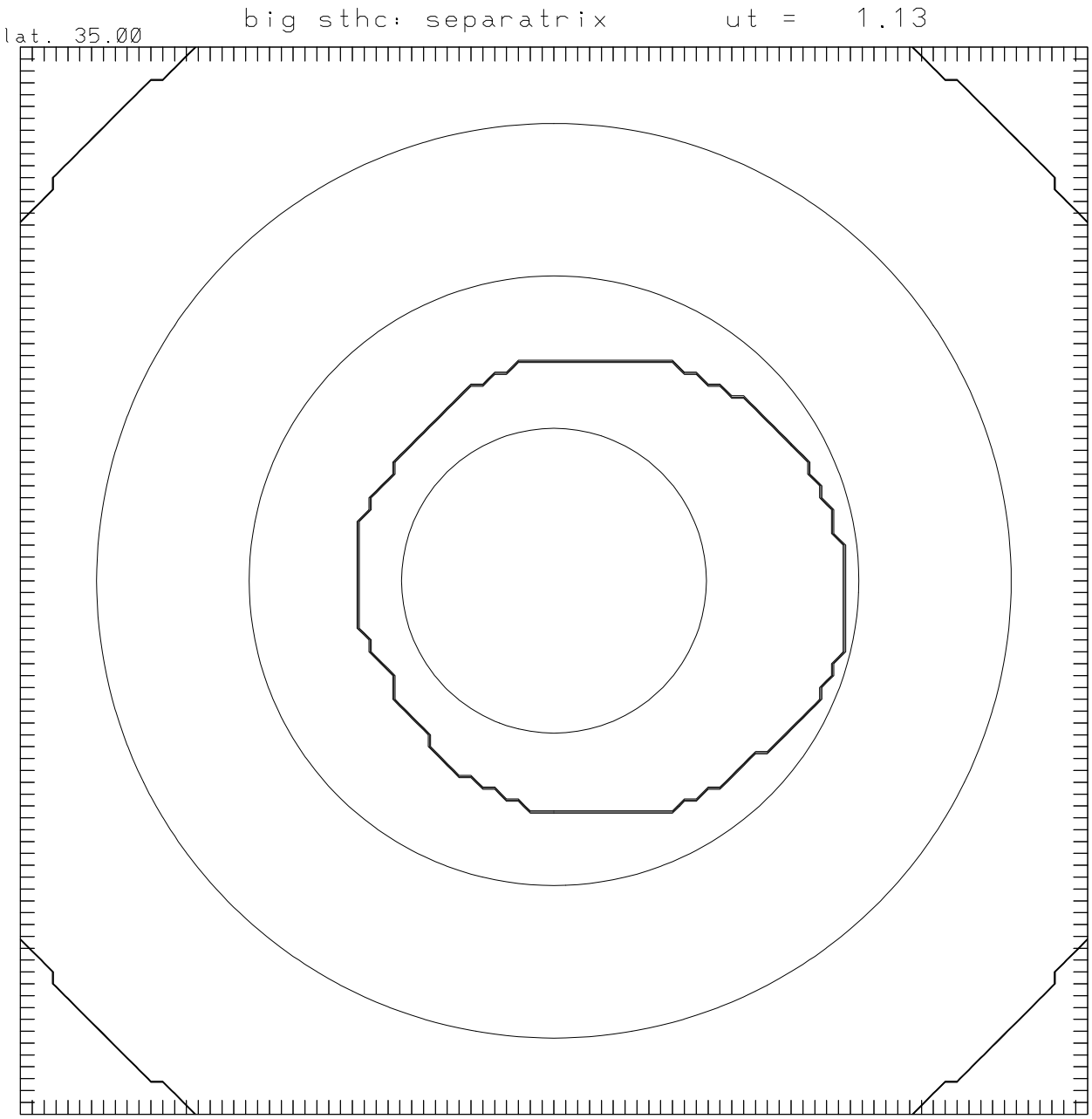
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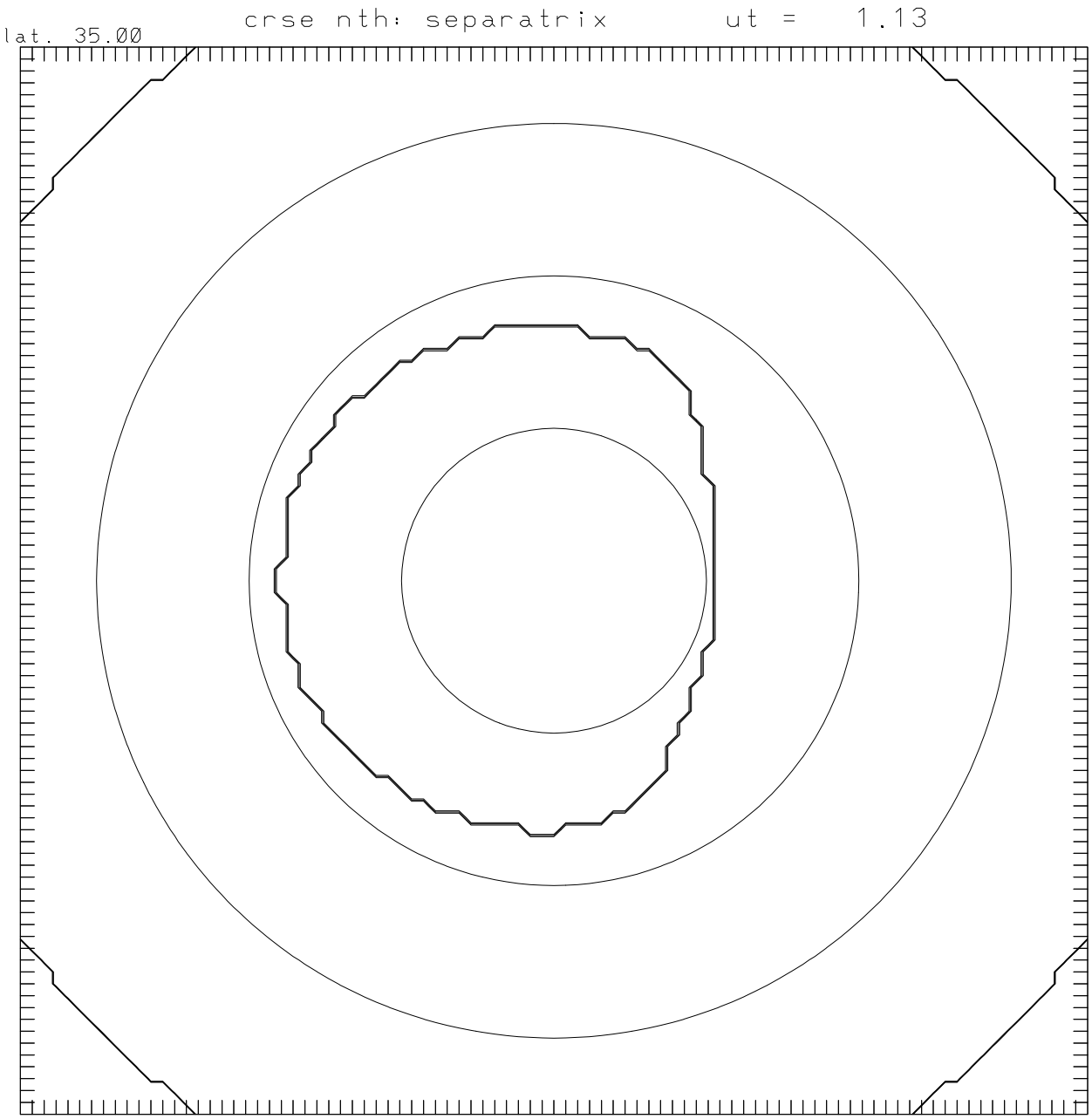
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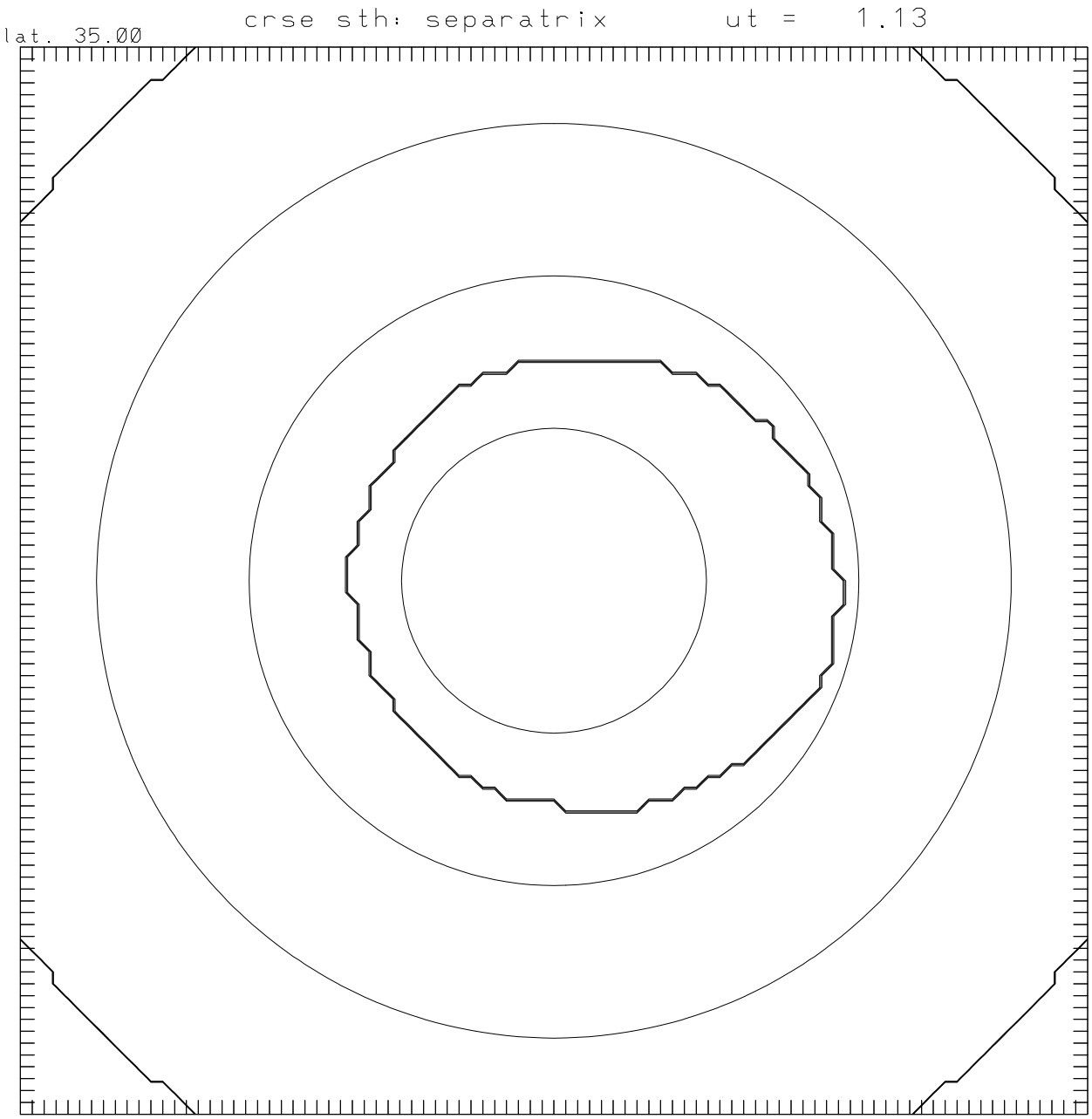
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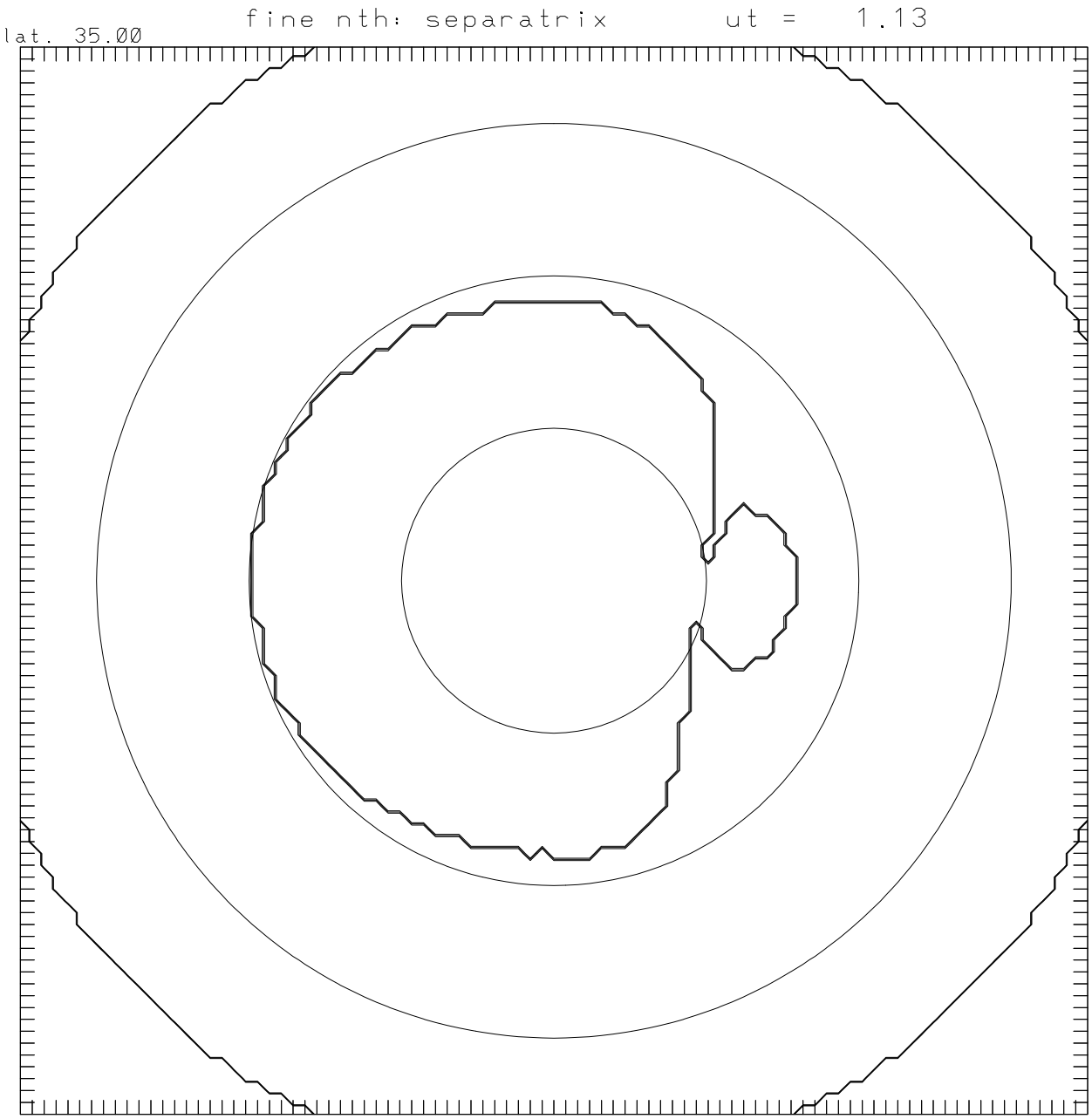
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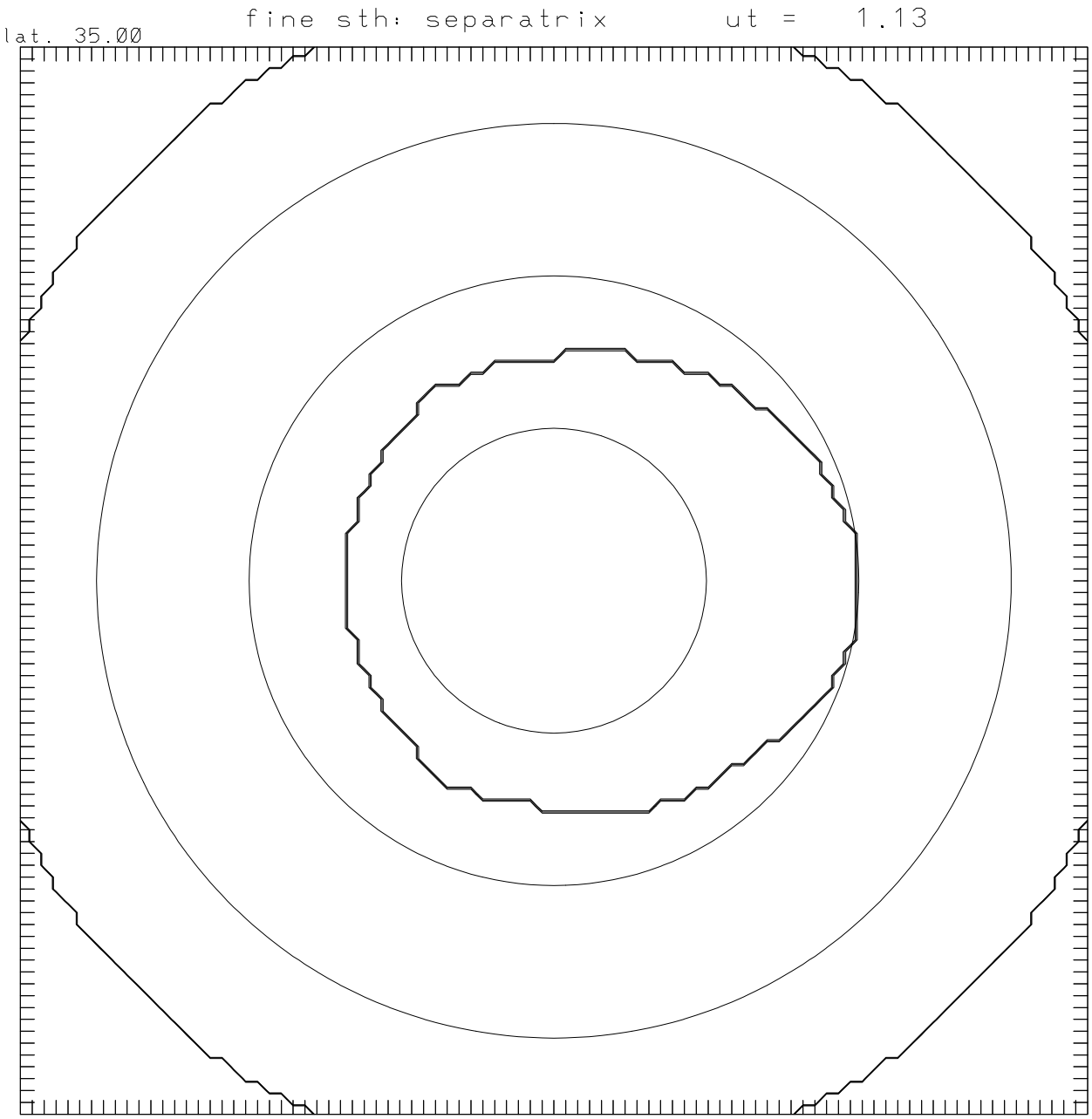
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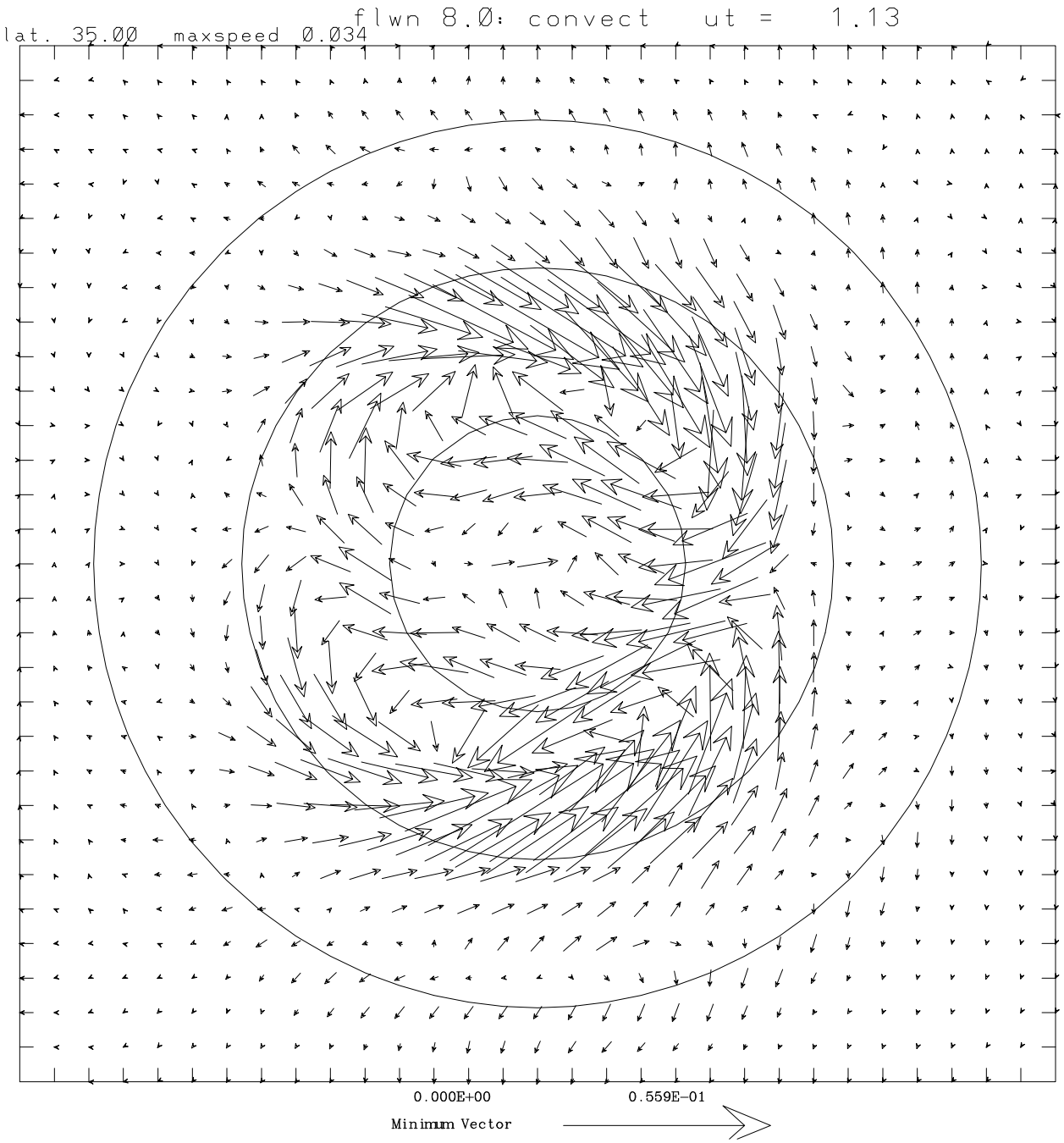
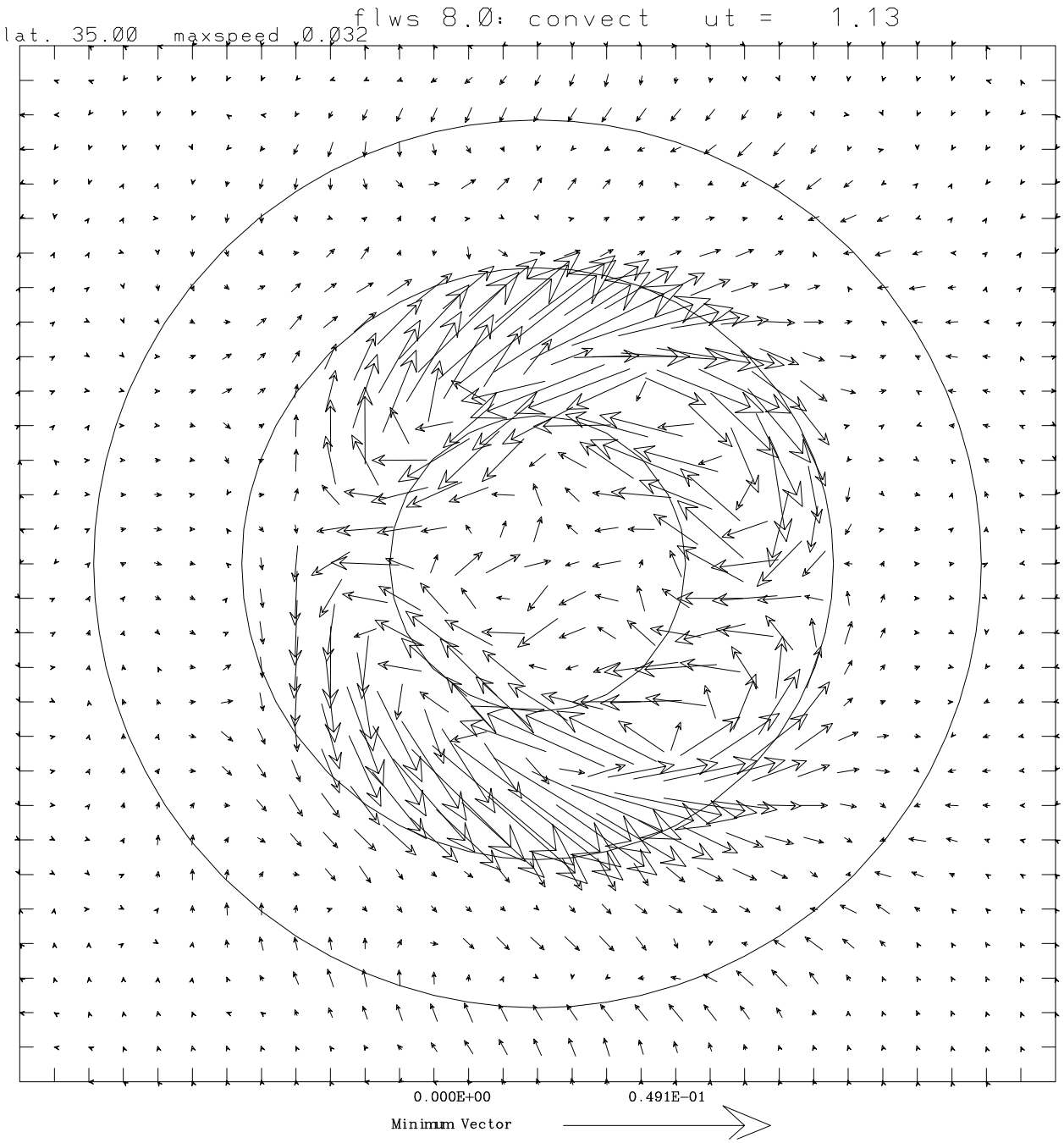
lat. 35.00


flwn 8.0: convect ut = 1.13
lat. 35.00 maxspeed 0.034
0.000E+00
0.559E-01
Minimum Vector


flws 8.0: convect ut = 1.13
lat. 35.00 maxspeed 0.032
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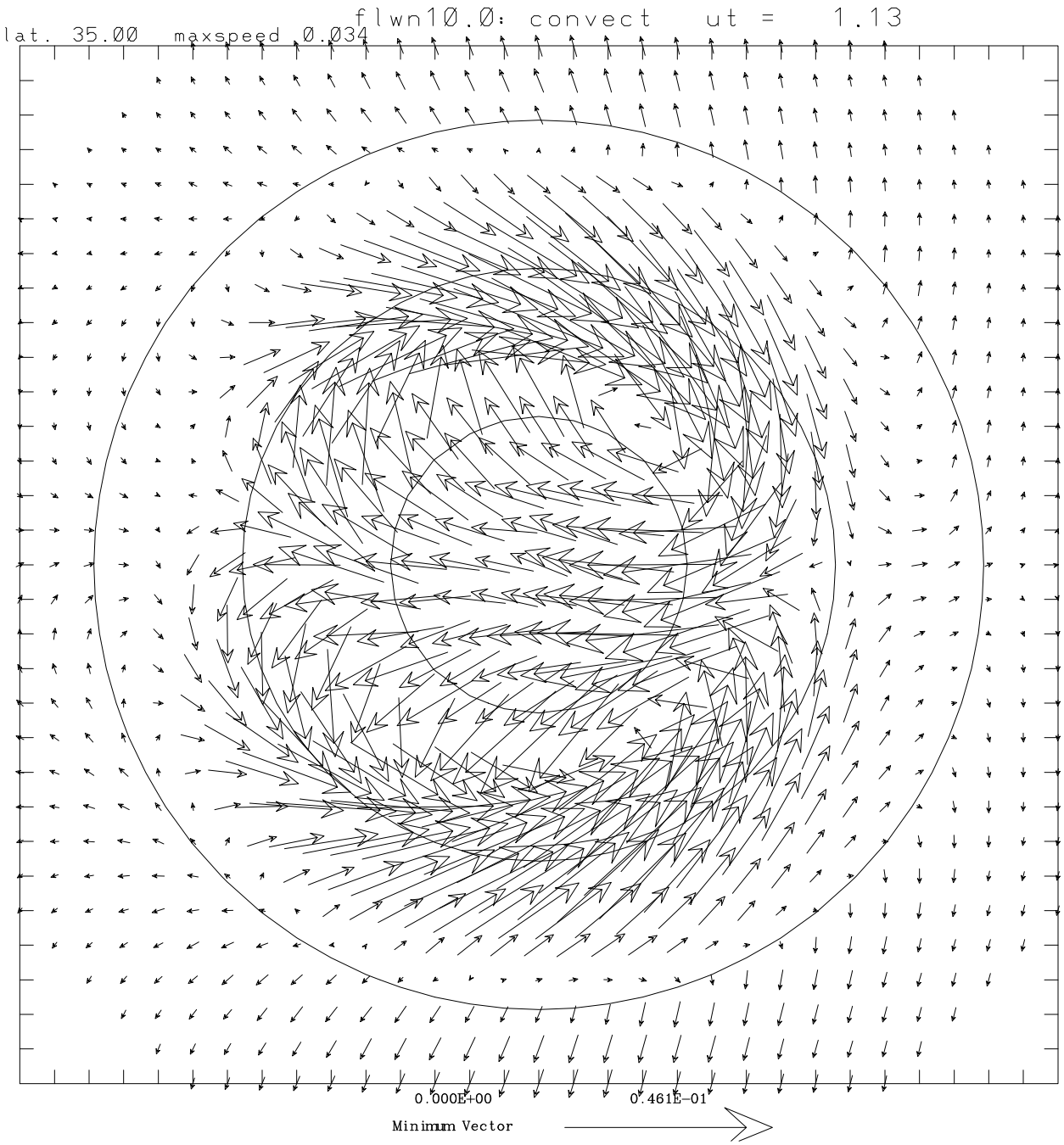
0.491E-01
Minimum Vector


flwn10.0: convect ut = 1.13
lat. 35.00 maxspeed 0.034
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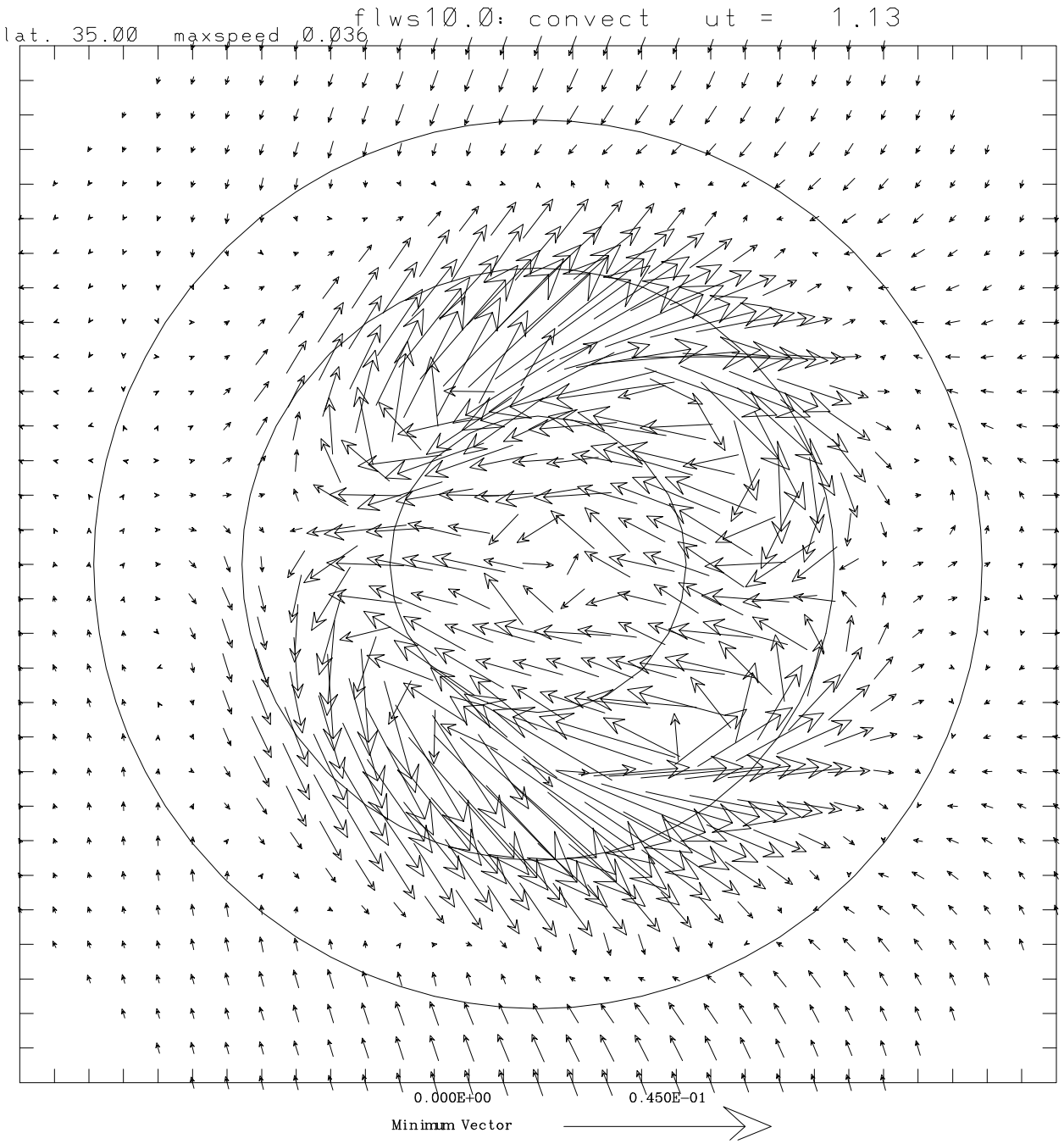
0.461E-01
Minimum Vector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lat. 35.00 maxspeed 0.036
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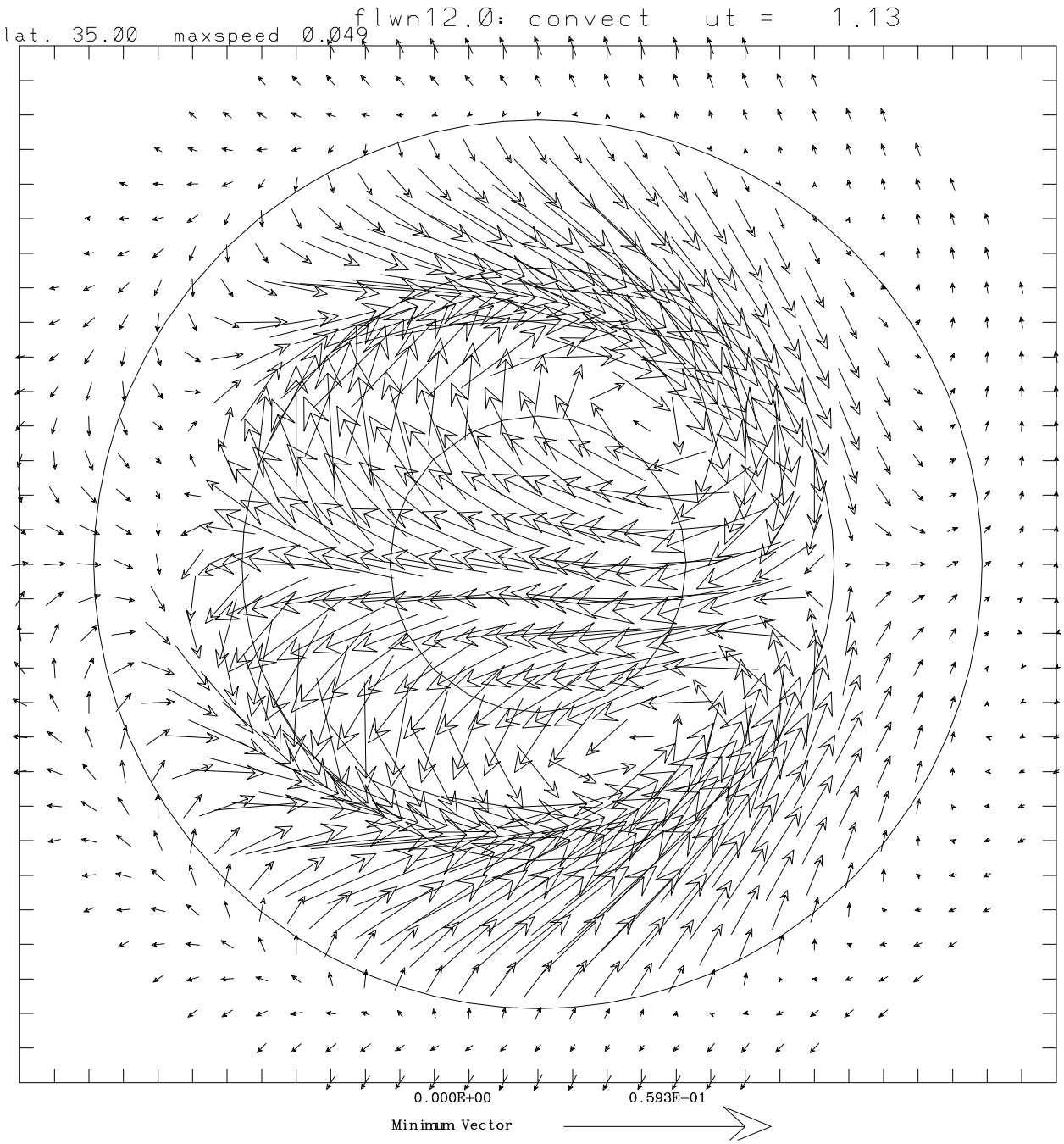
0.450E-01
Minimum Vector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lat. 35.00 maxspeed 0.049
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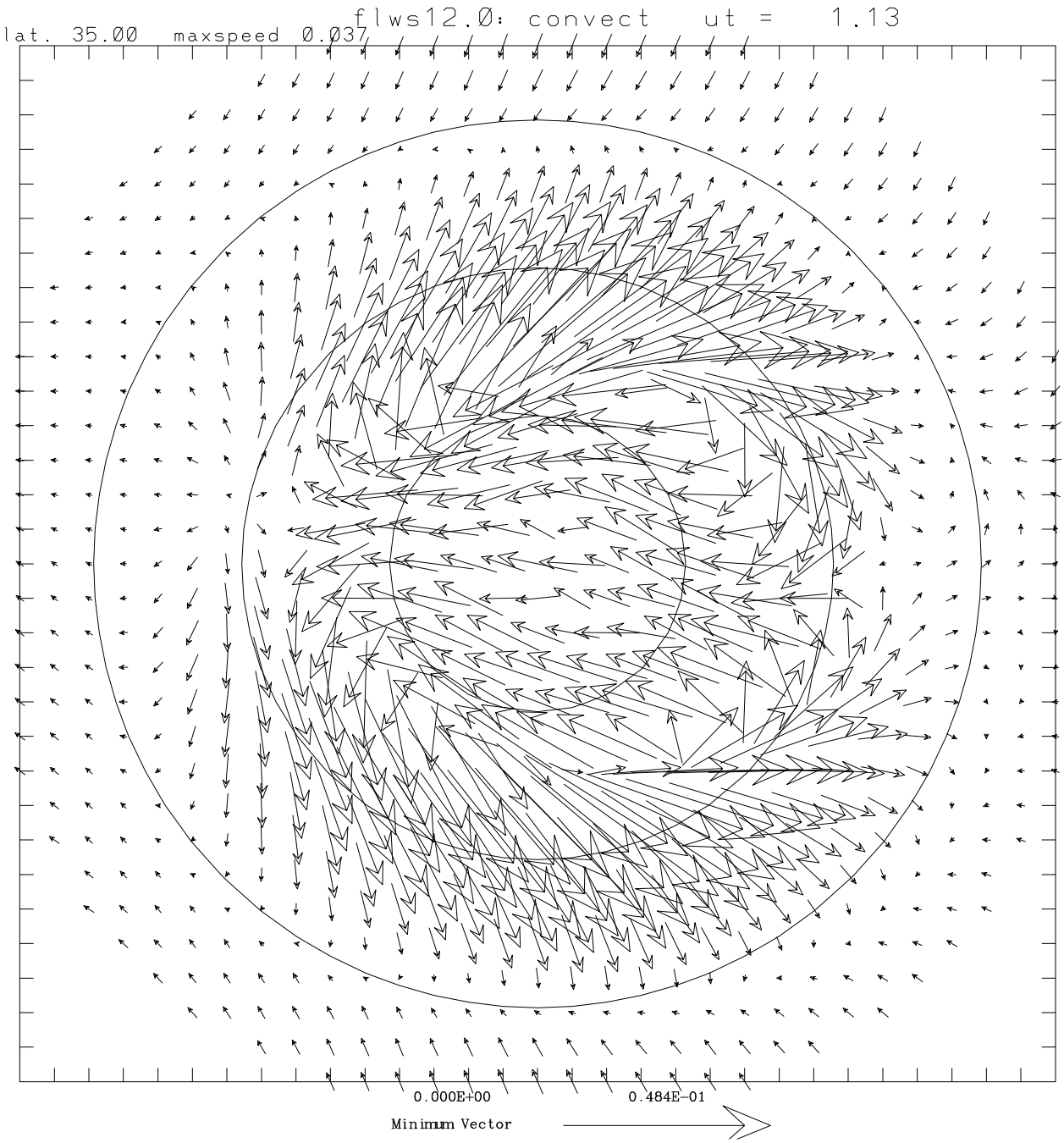
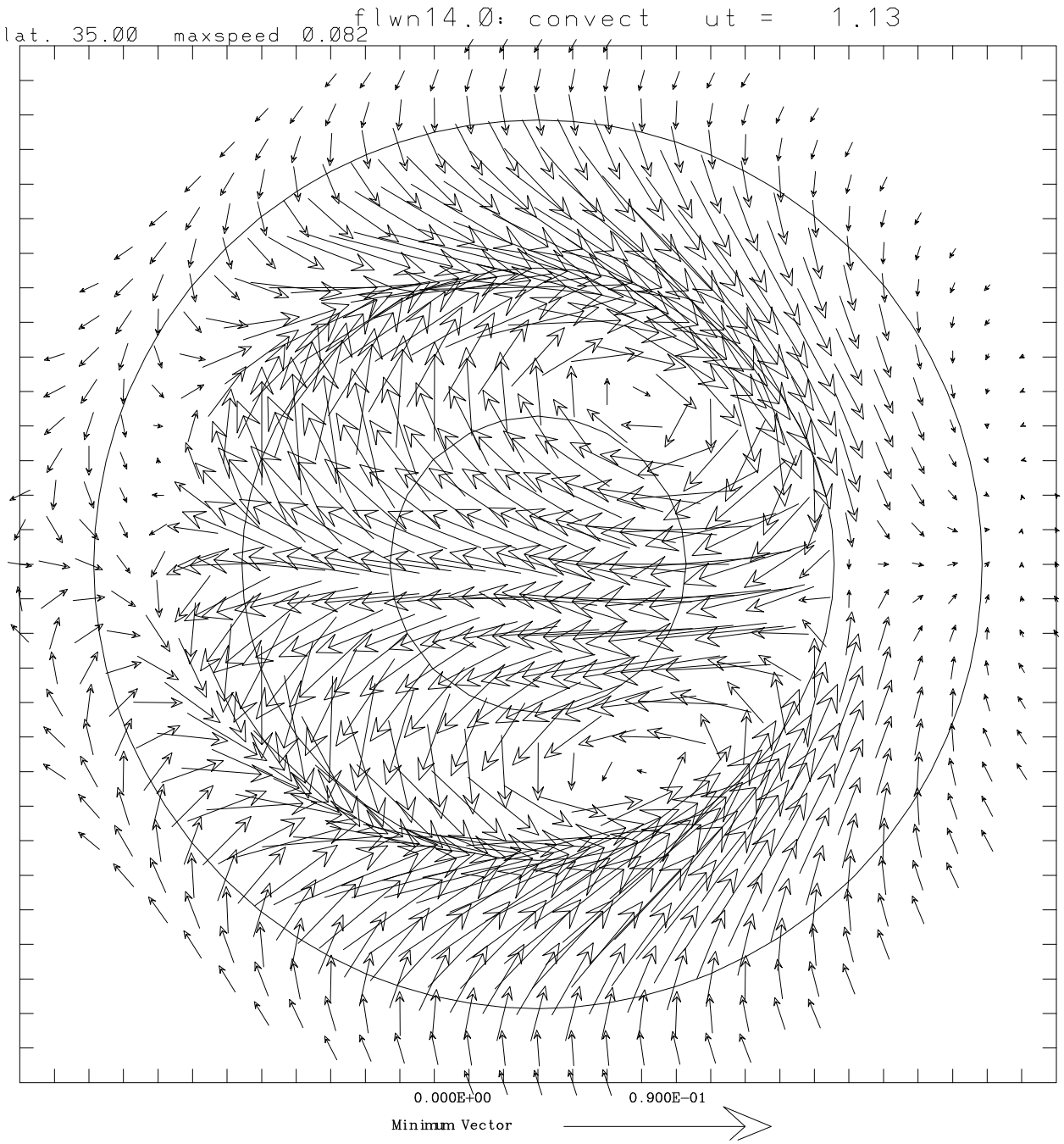
0.593E-01
Minimum Vector


flws12.0: convect ut = 1.13
lat. 35.00 maxspeed 0.037
0.000E+00
0.484E-01
Minimum Vector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lat. 35.00 maxspeed 0.082
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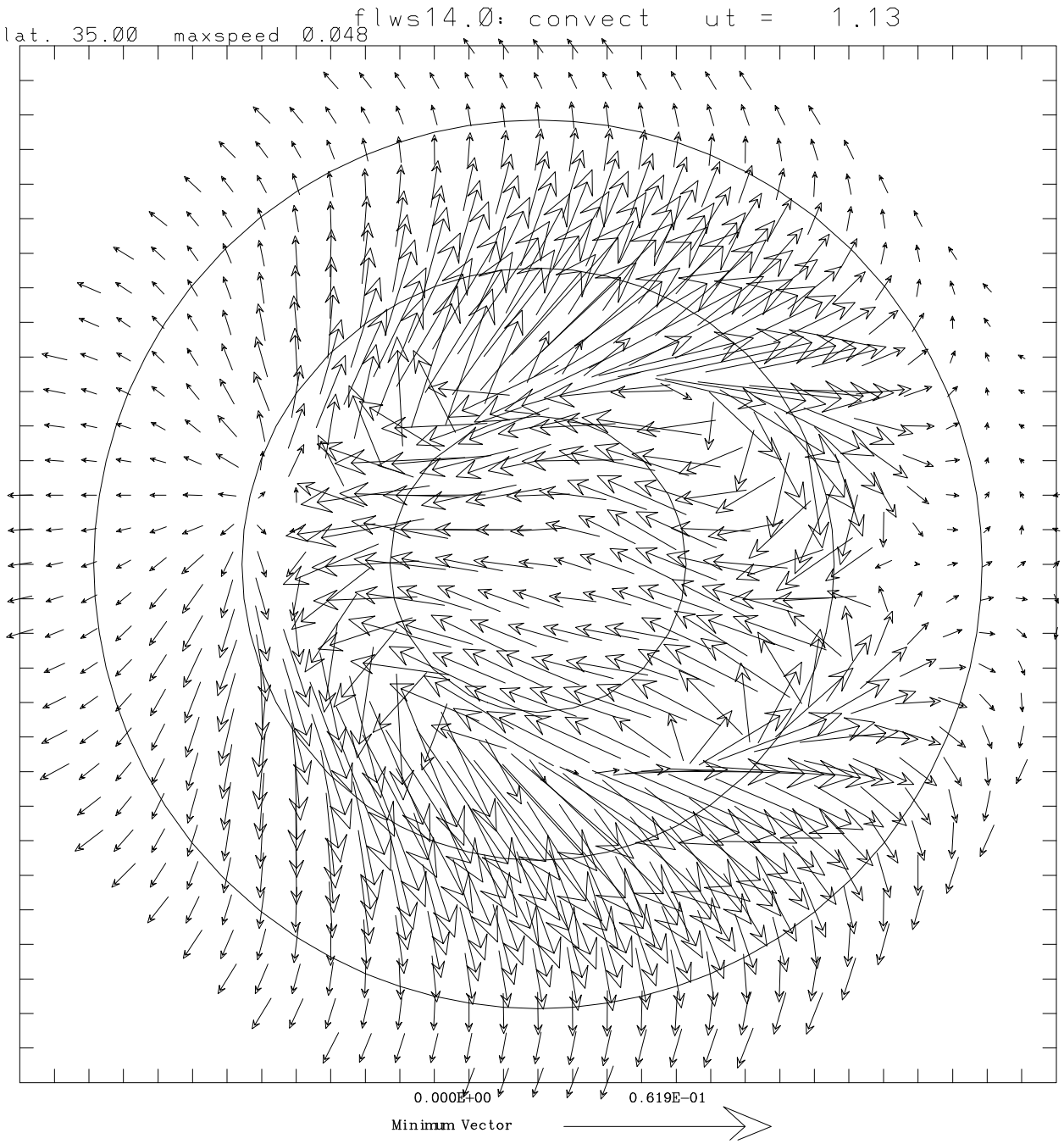
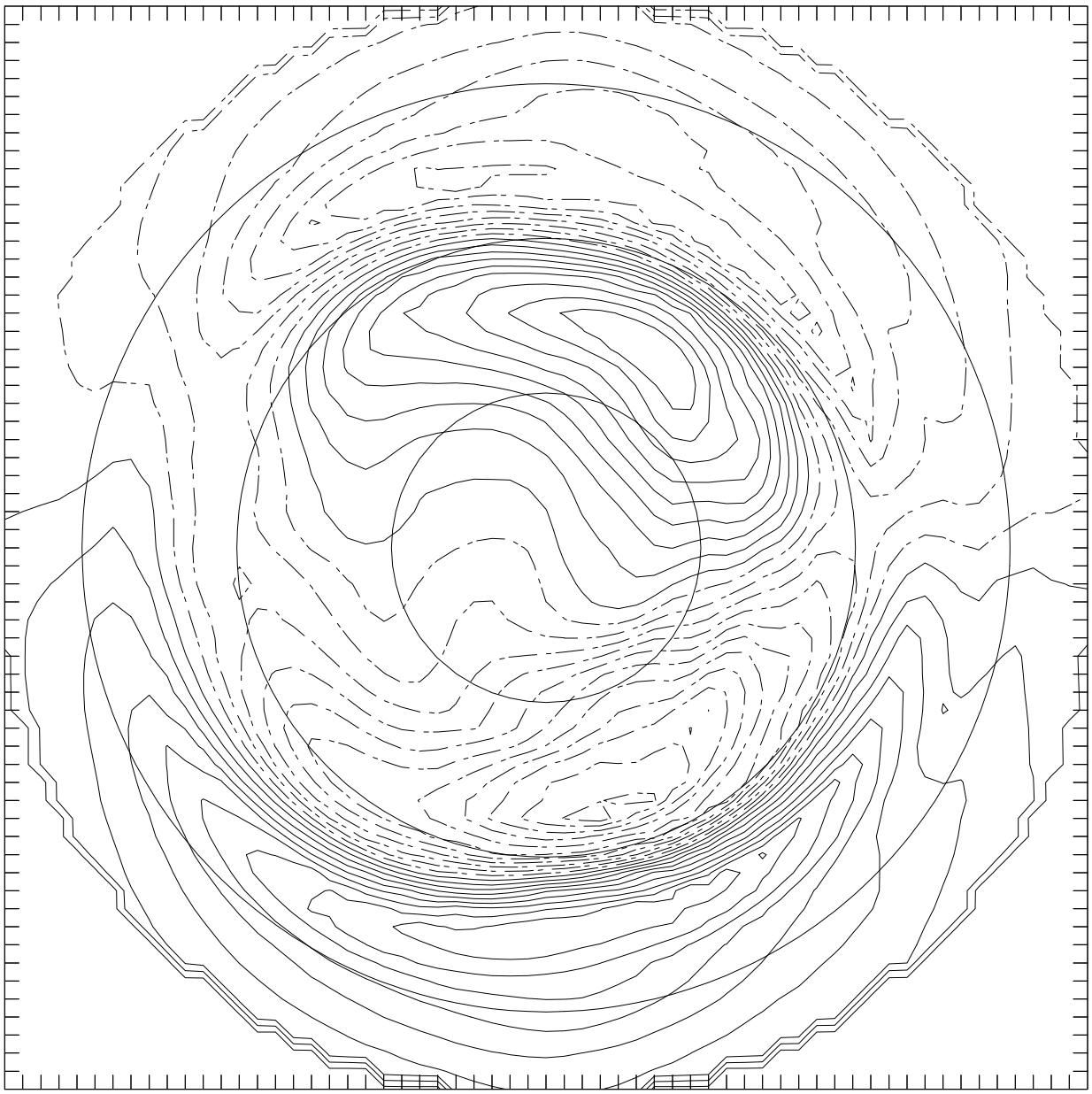
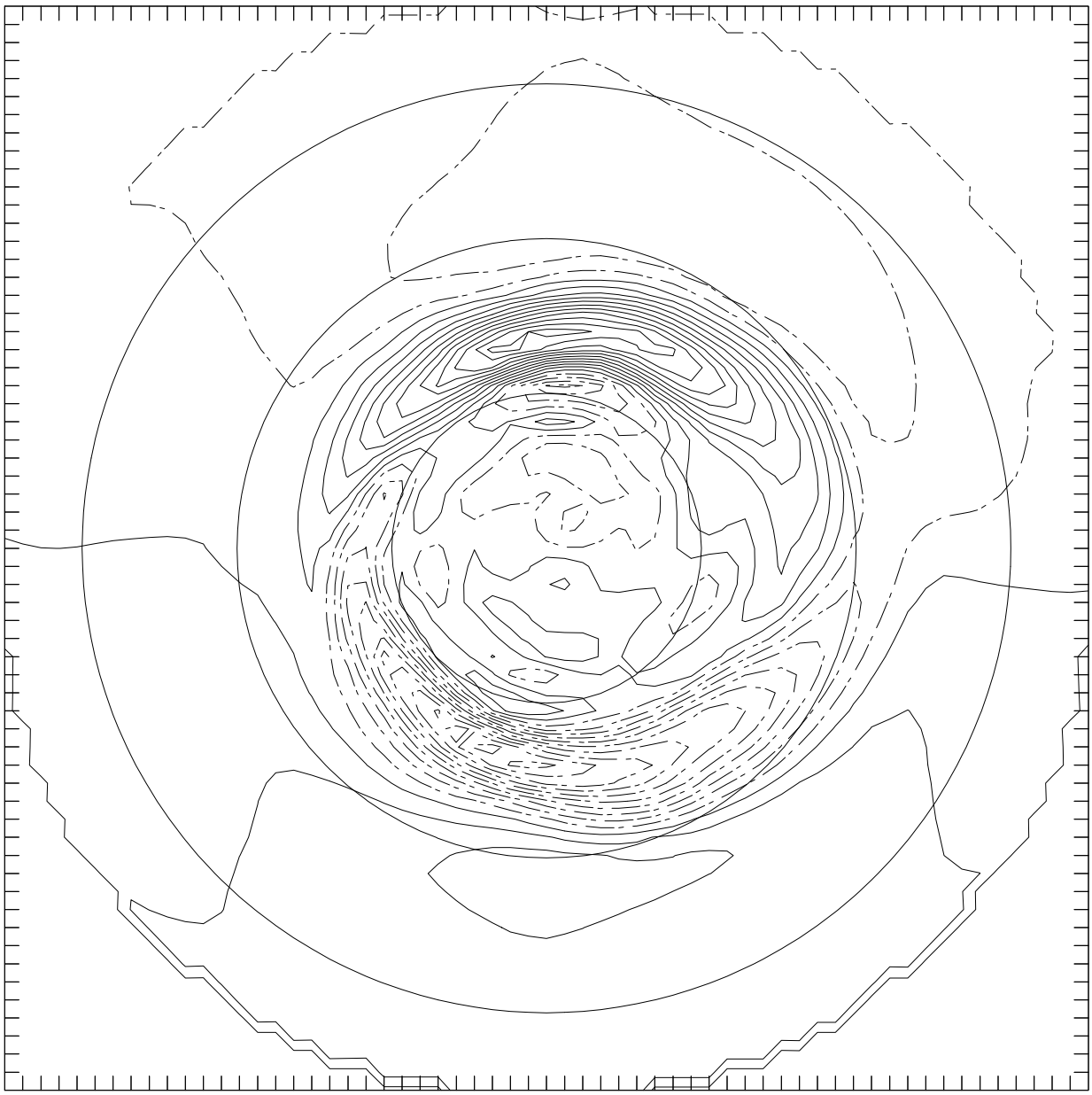
0.900E-01
Minimum Vector


flws14.0: convect ut = 1.13
lat. 35.00 maxspeed 0.048
0.000E+00
0.619E-01
Minimum Vector

min -0.06 fmax 0.05 nth cap pot ut = 1.13



min -0.08 fmax 0.08 sth cap pot ut = 1.13



min-0.1706 fmax 0.1870
lat. 35.00

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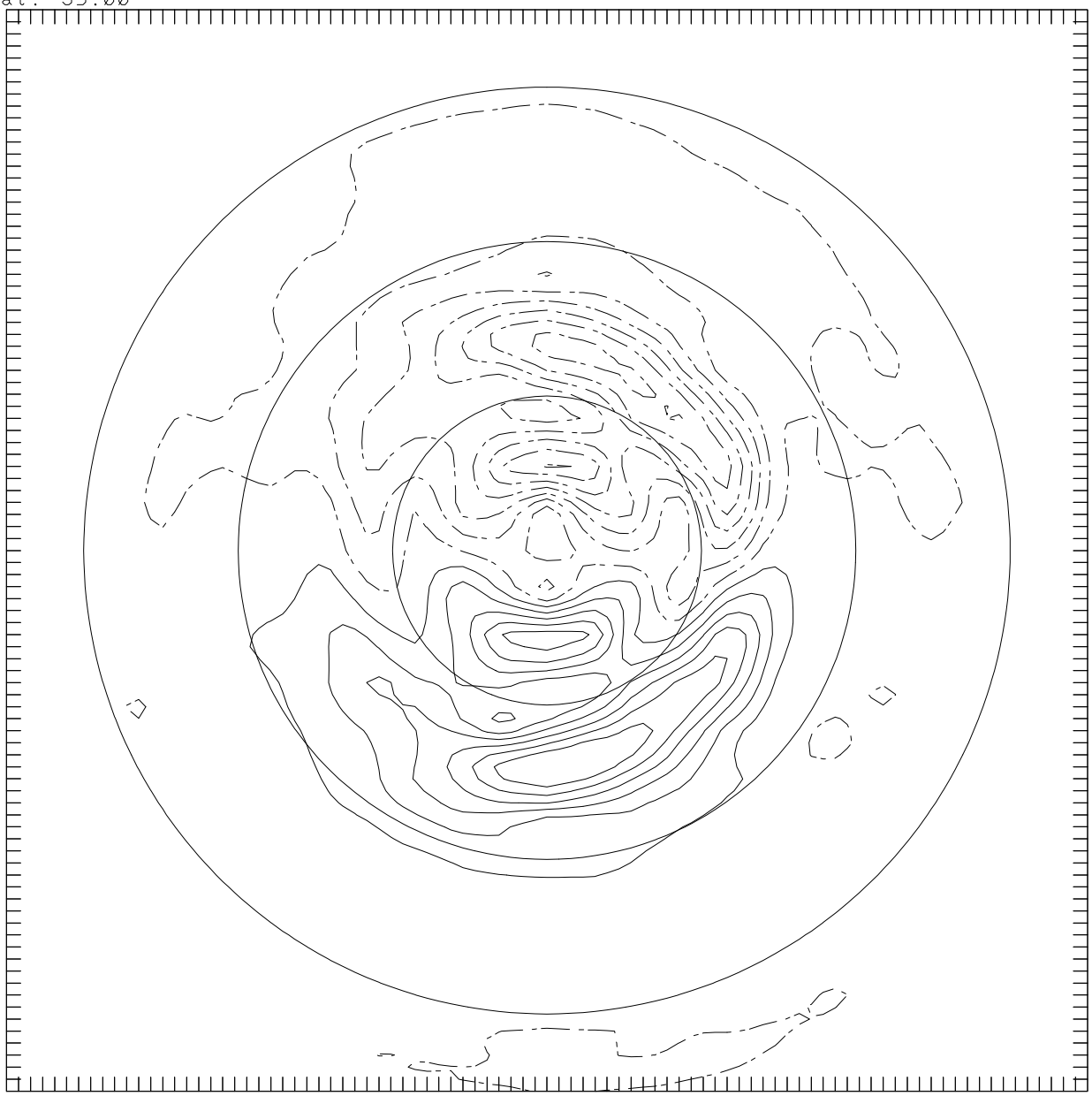
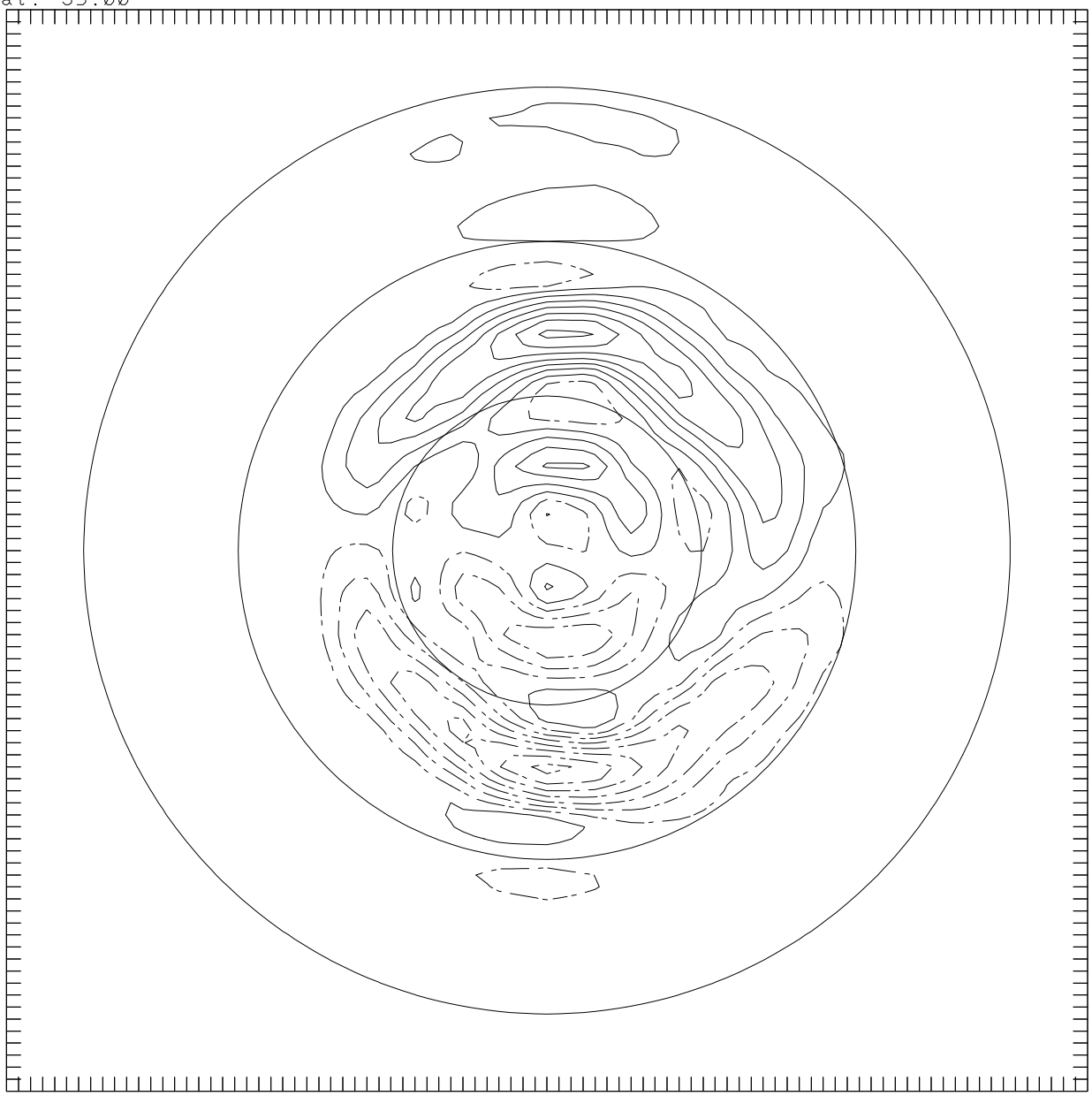


min-0.2416 fmax 0.2285
lat. 35.00

cur4 sth: aurora ut = 1.13



min-0.4323 fmax 1.0198
lat. 35.00

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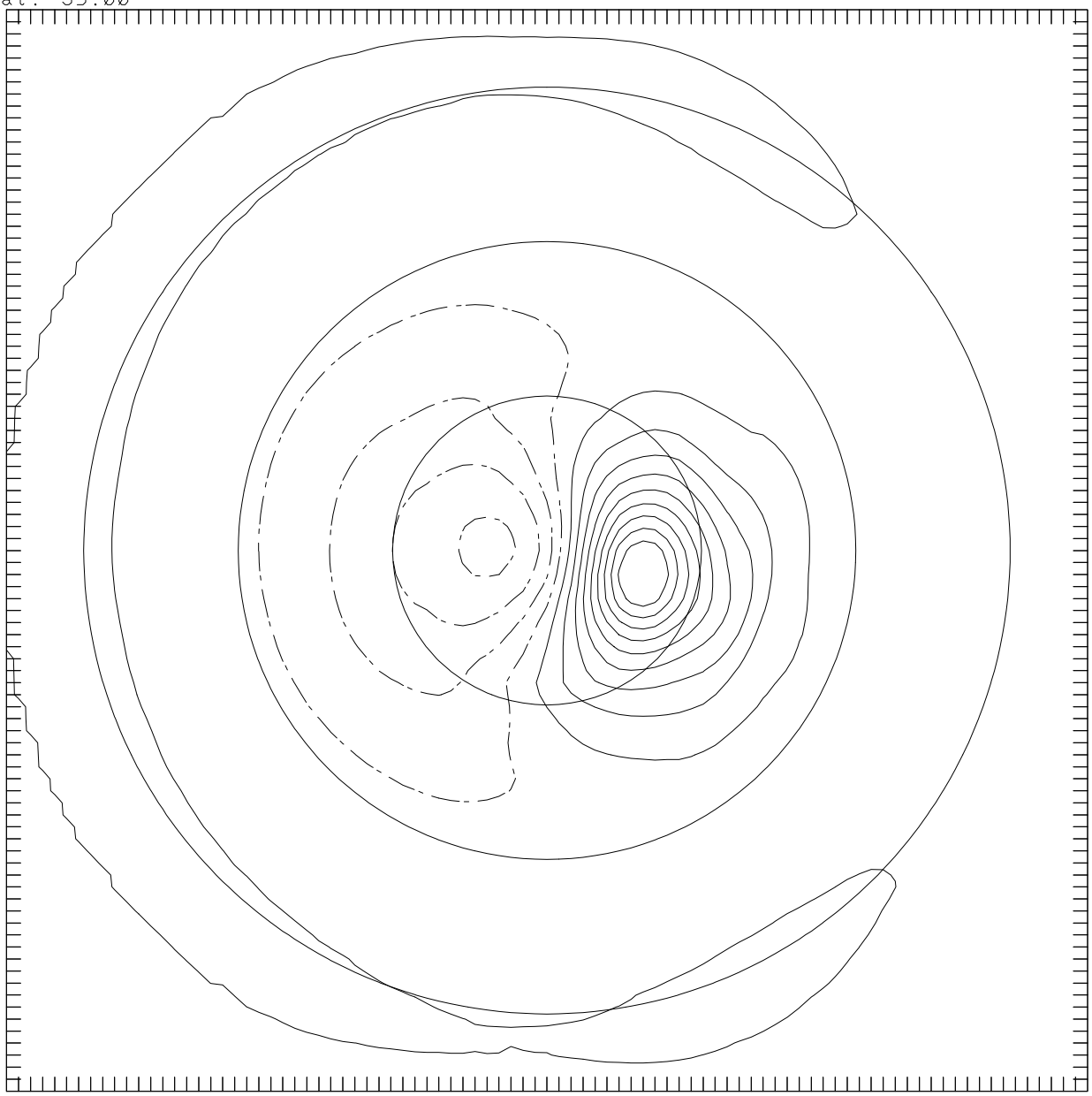
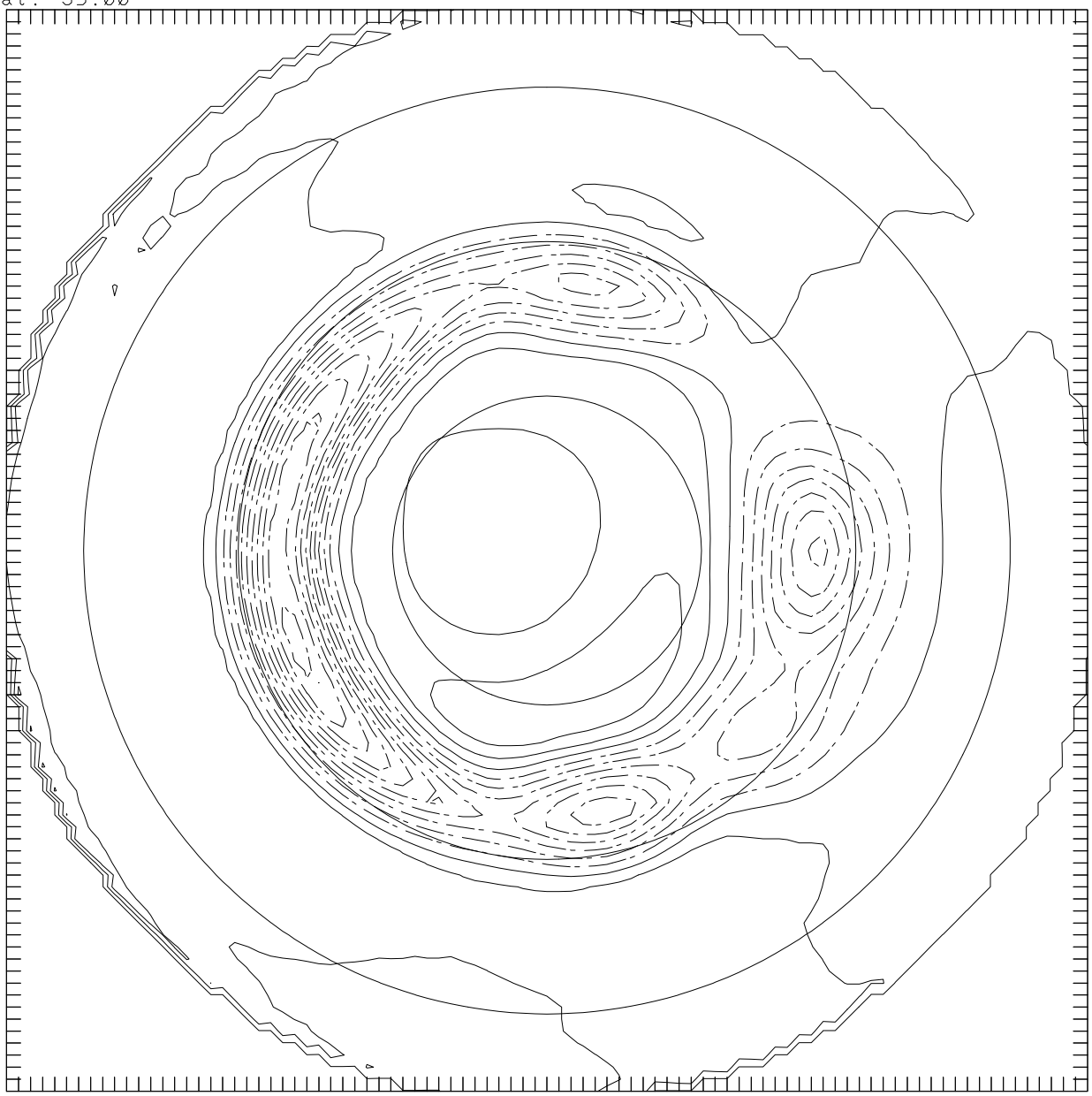


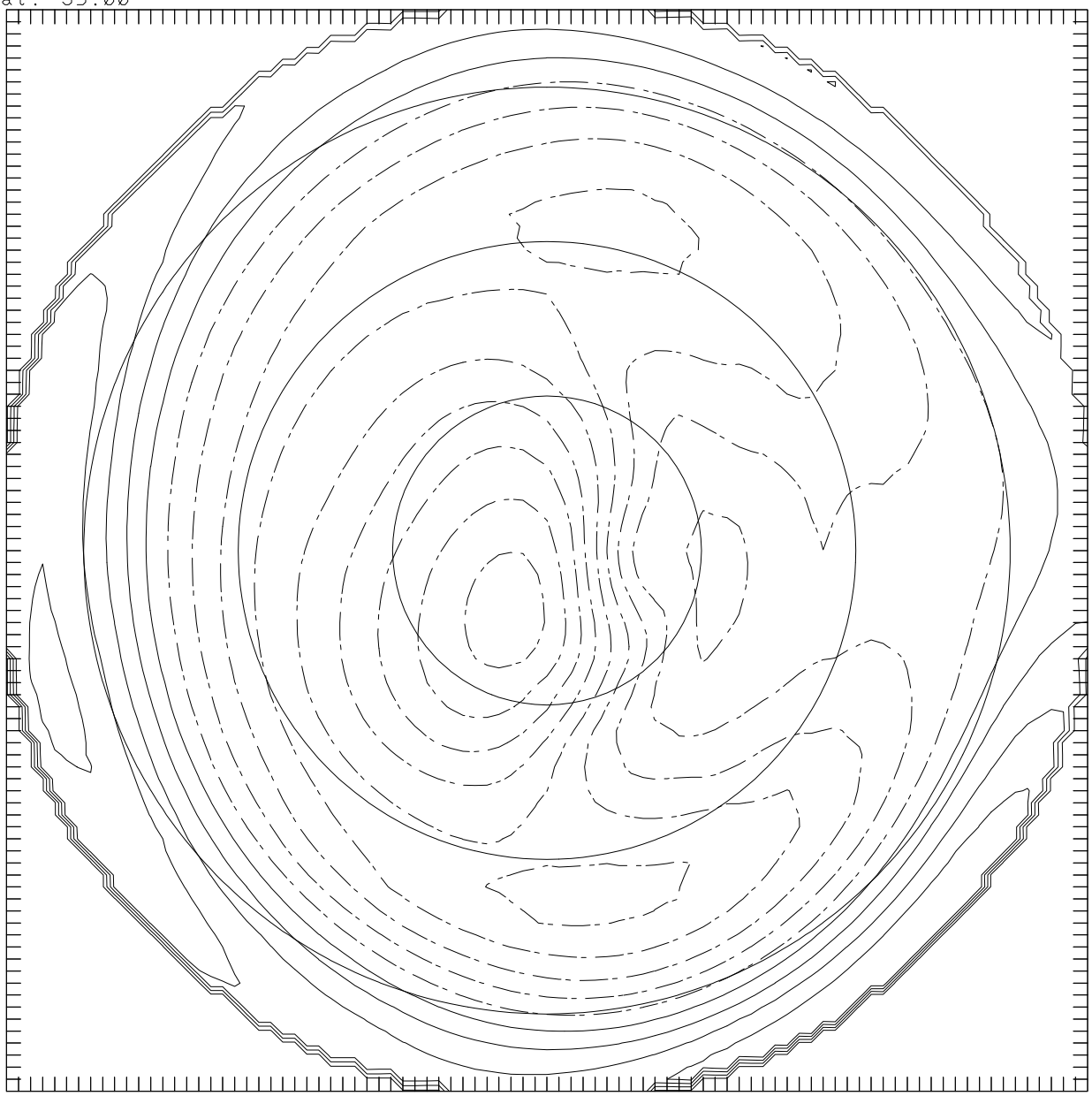
min-0.0455 fmax 0.0140
lat. 35.00

qfluxsth: aurora ut = 1.13



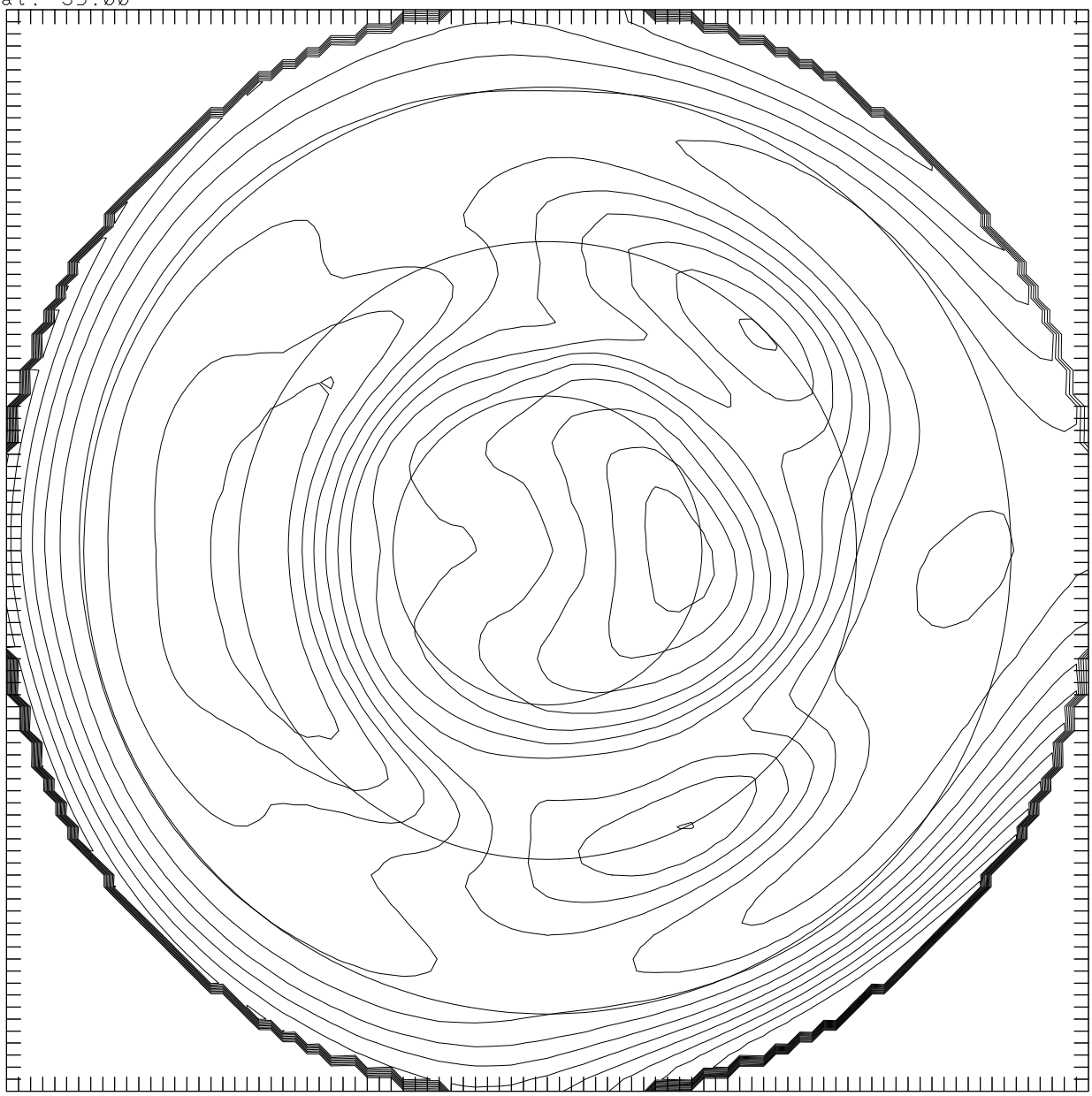
min-0.0894 fmax 0.0432
lat. 35.00

hfluxnth: aurora ut = 1.13



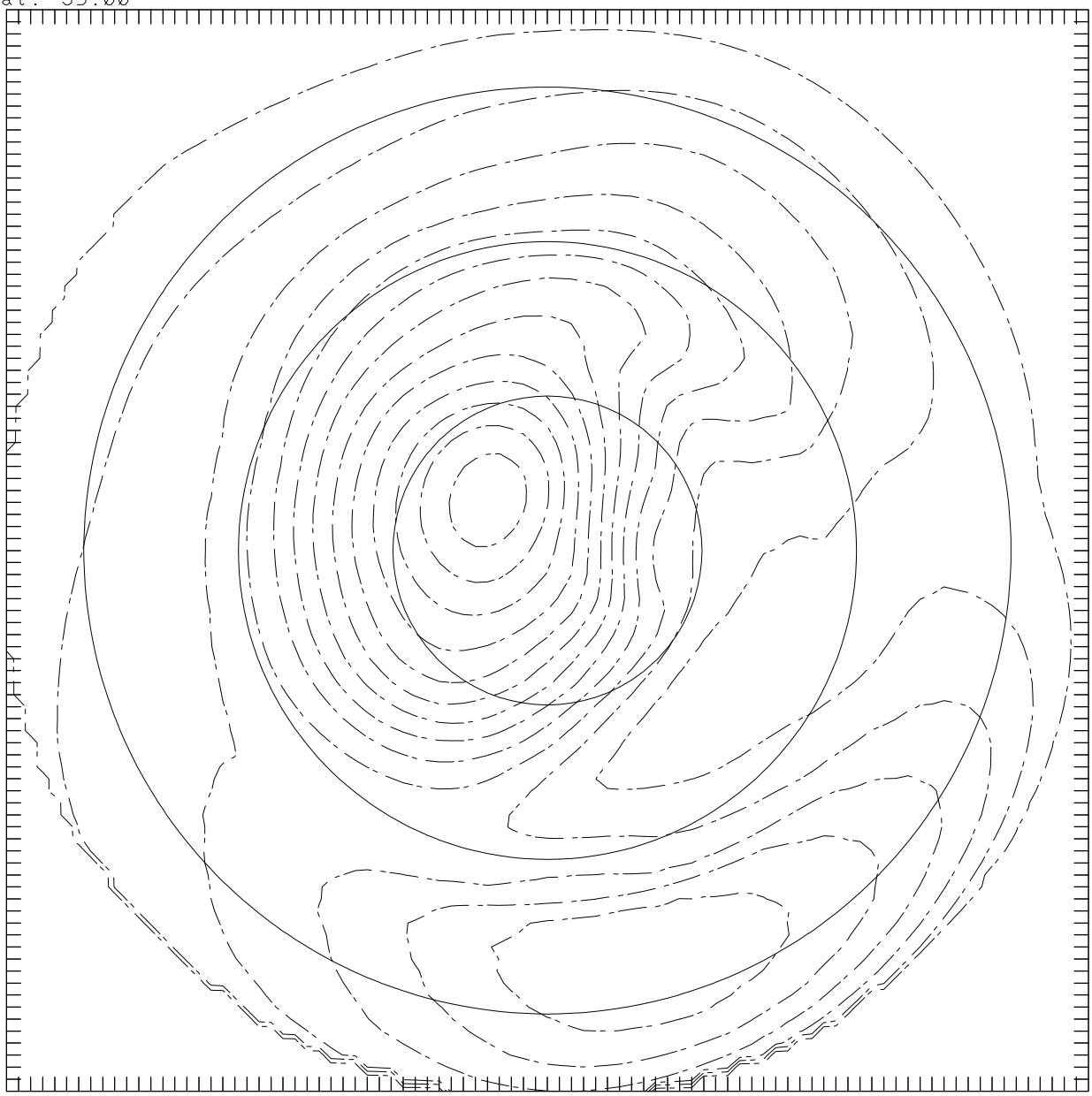
min 0.0000 fmax 0.0400
lat. 35.00

hfluxsth: aurora ut = 1.13



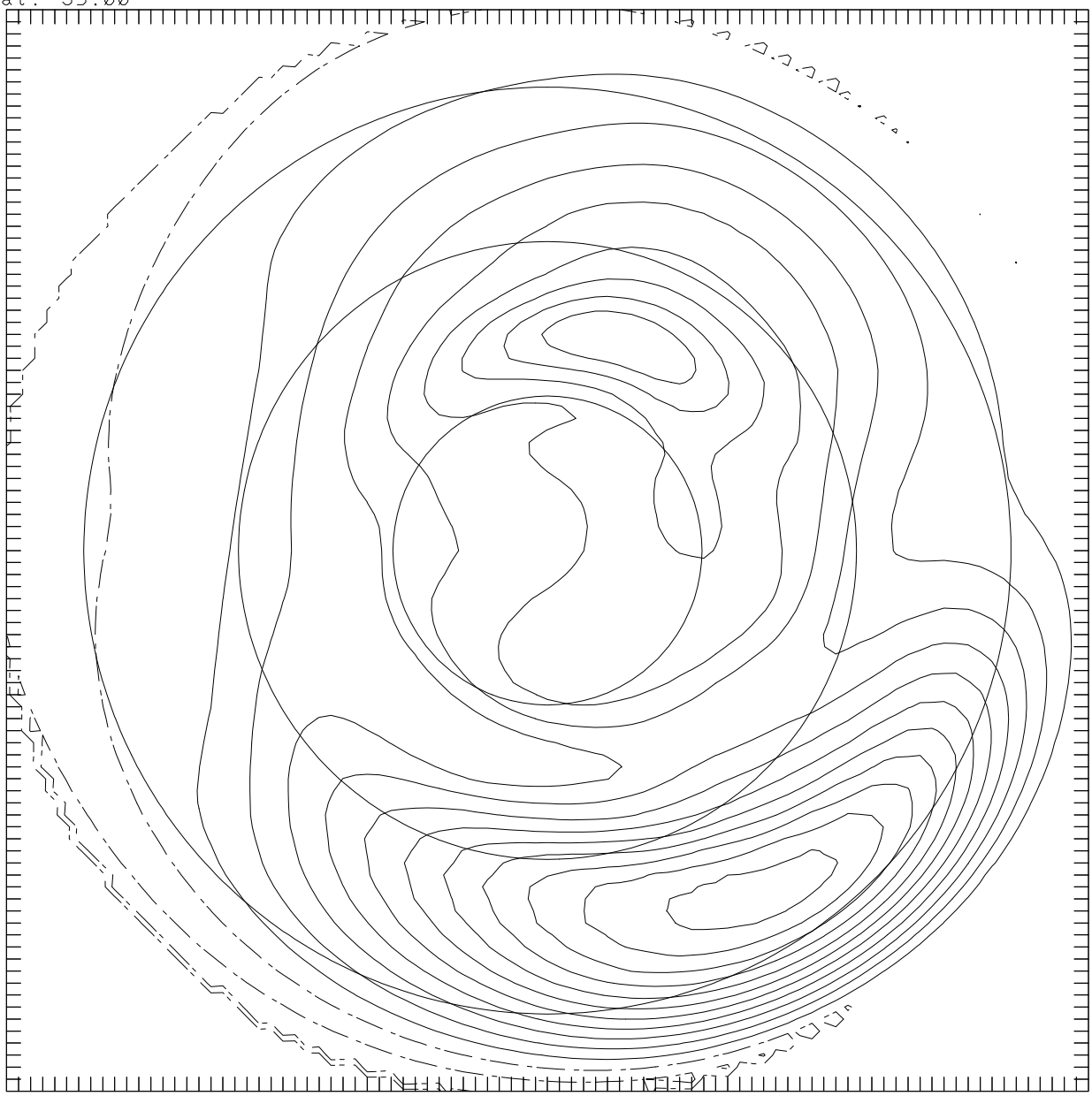
min-0.0608 fmax 0.0000
lat. 35.00

ofluxnth: aurora ut = 1.13



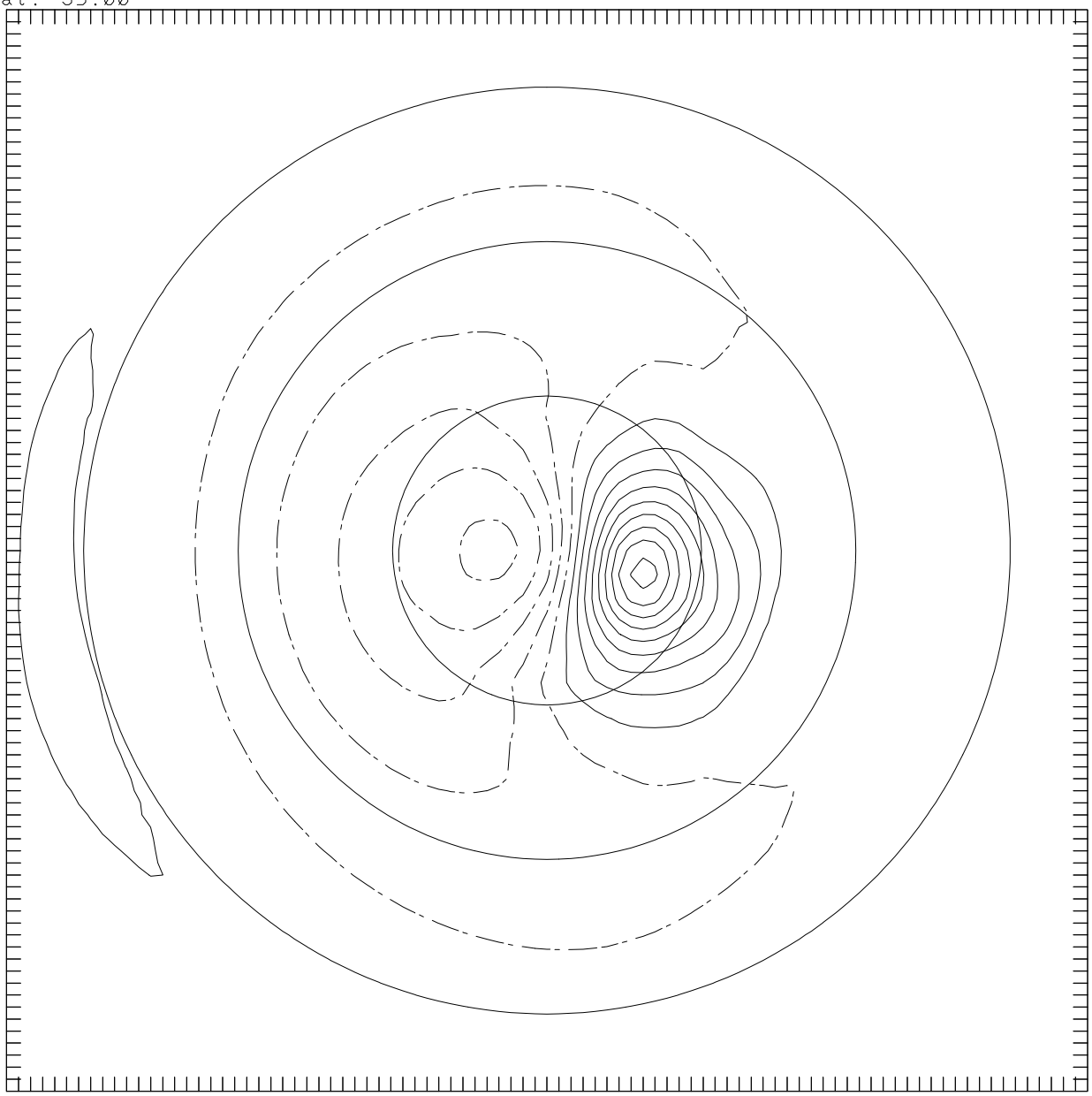
min-0.0112 fmax 0.0502
lat. 35.00

ofluxsth: aurora ut = 1.13



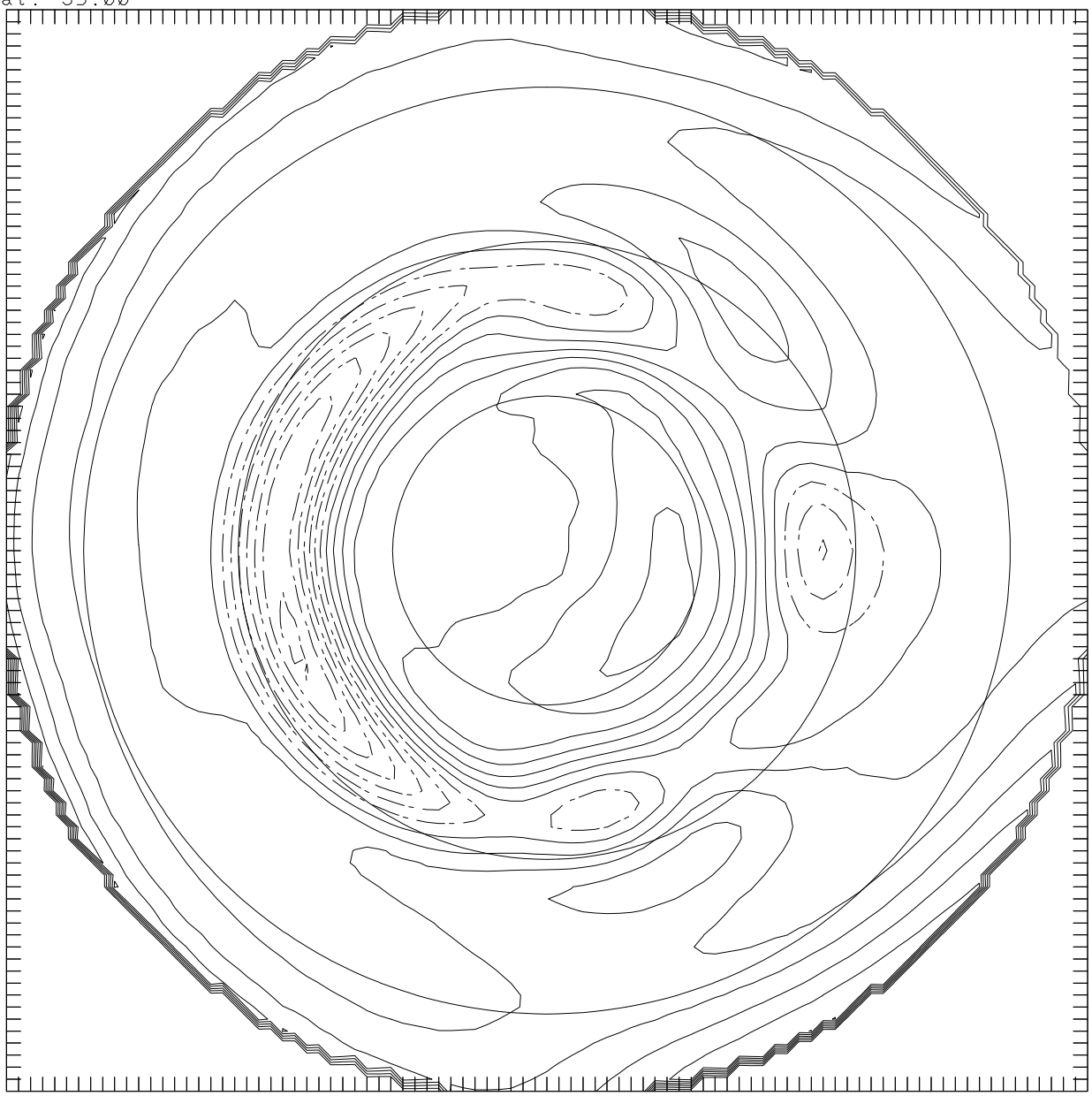
min-0.5181 fmax 1.0050
lat. 35.00

efluxnth: aurora ut = 1.13



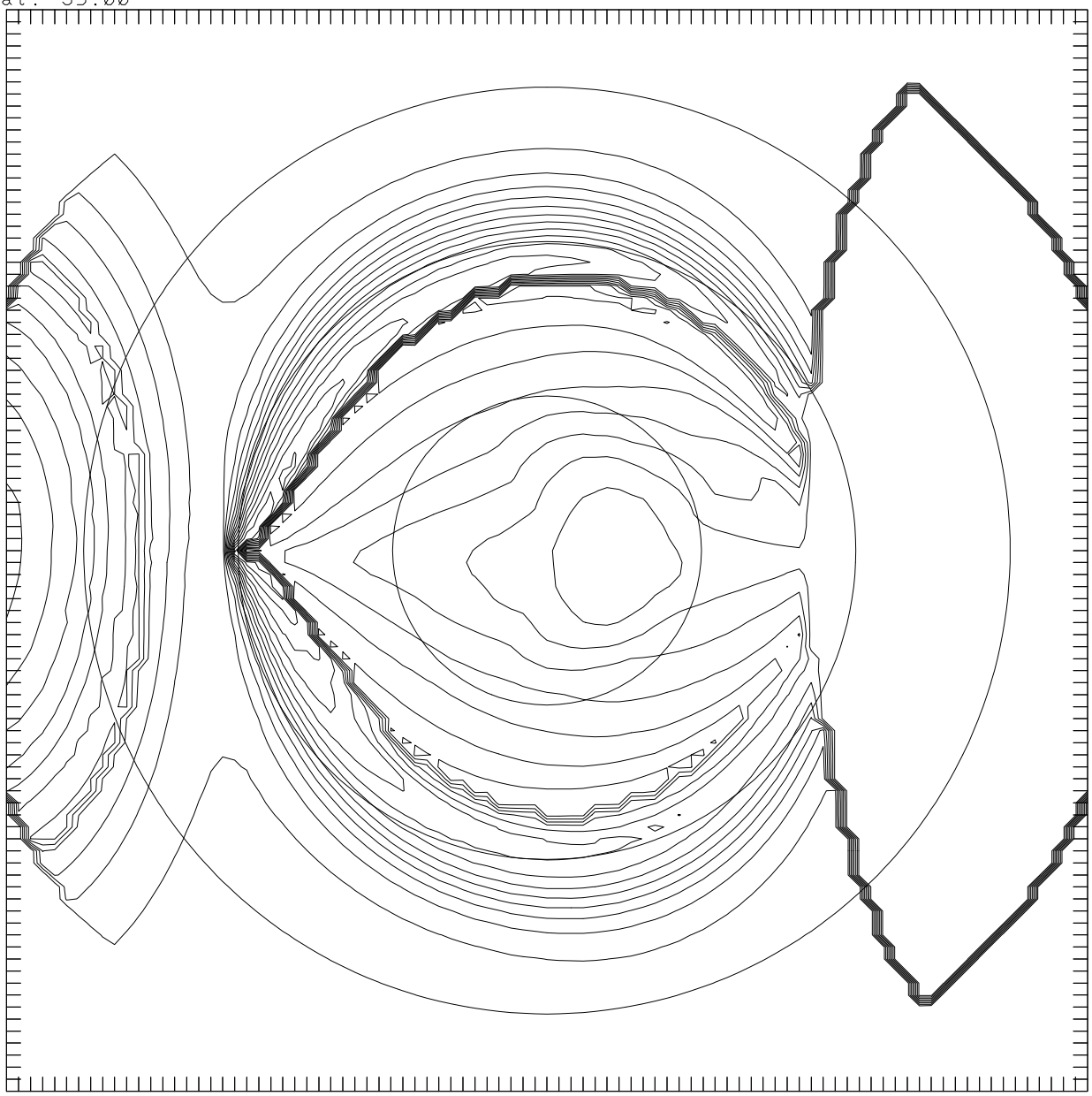
min-0.0421 fmax 0.0479
lat. 35.00

efluxsth: aurora ut = 1.13



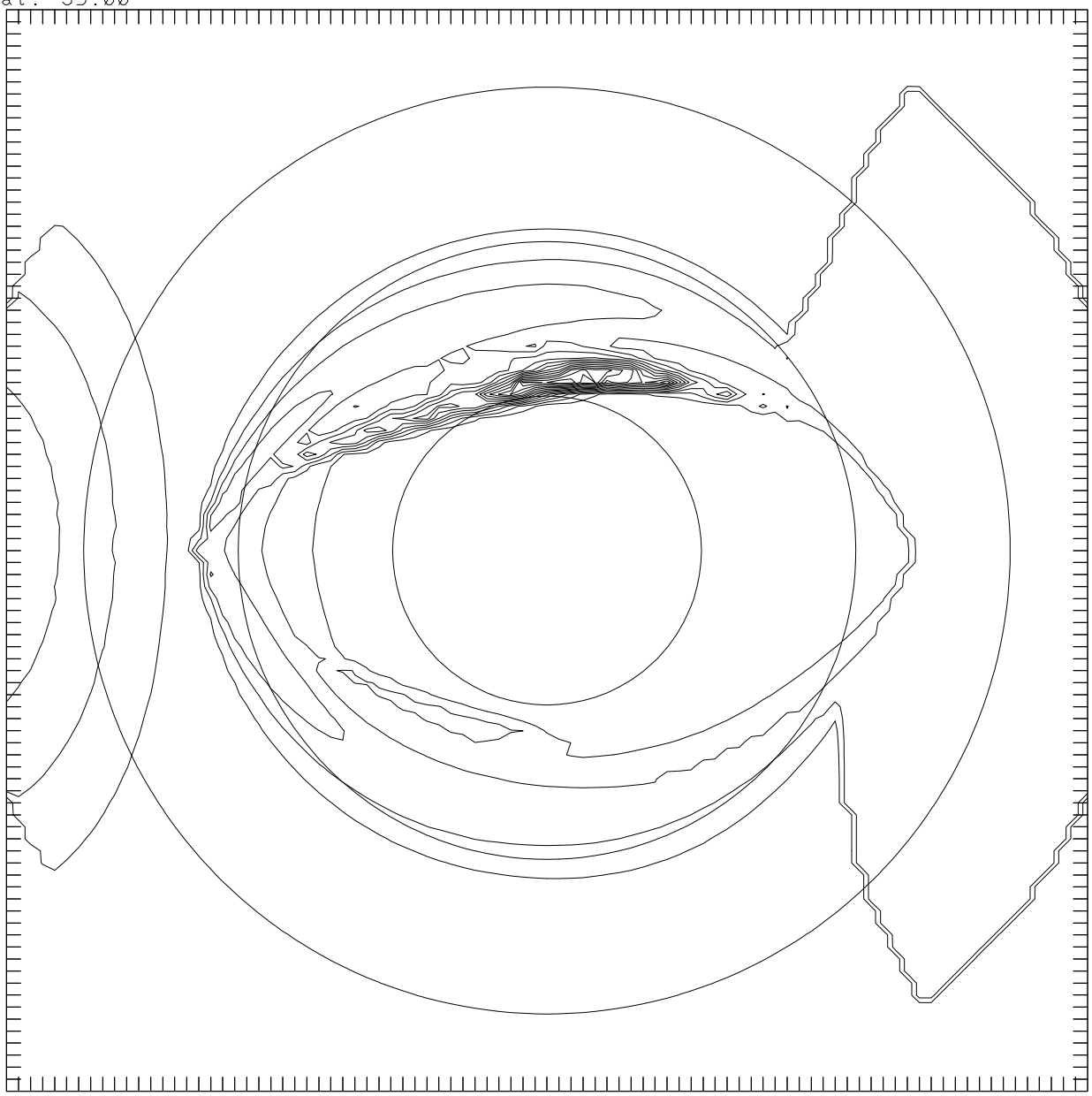
min 0.0000 0.0304
lat. 35.00

itempnth: intensity ut = 1.13



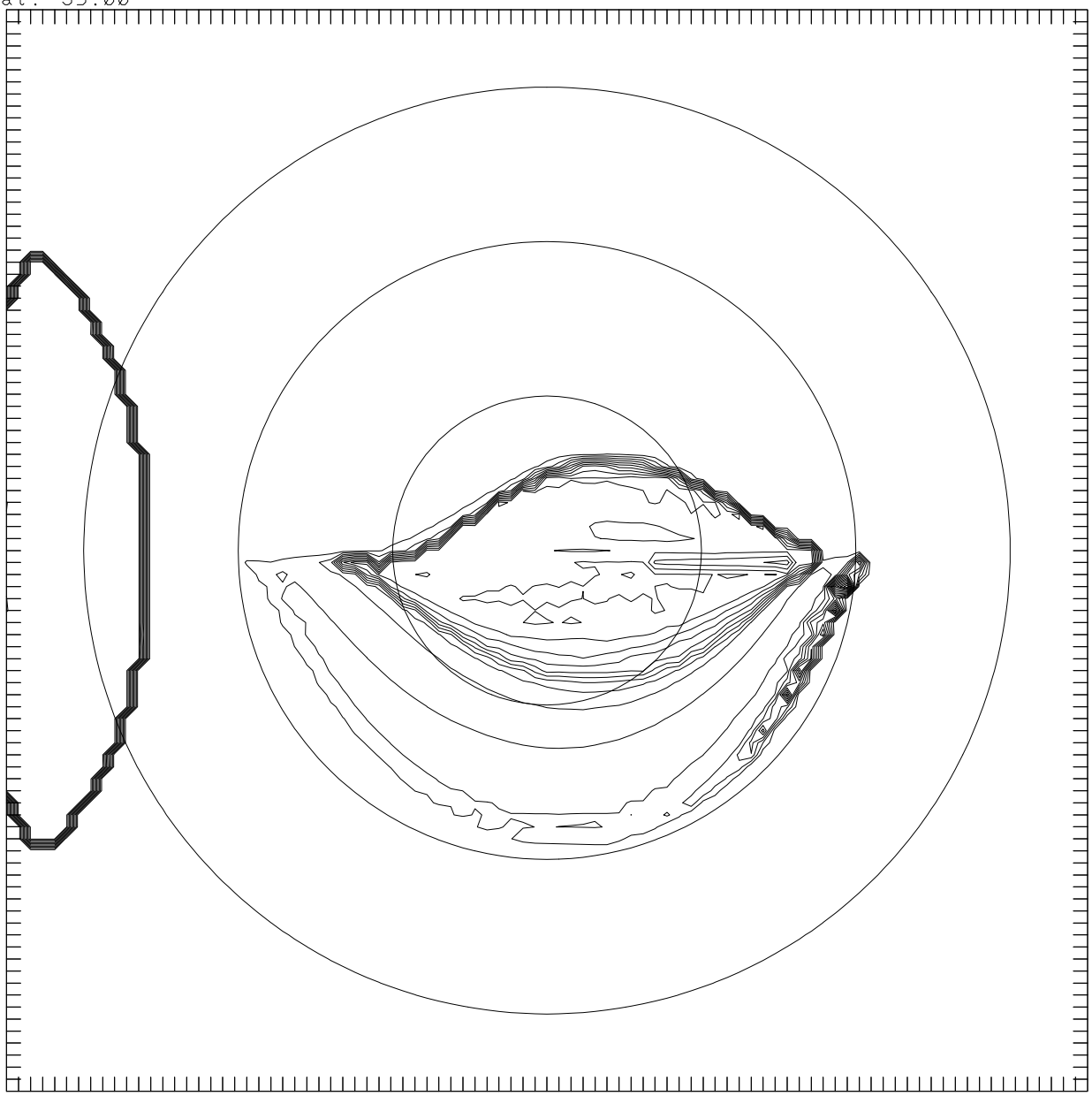
min 0.0000 0.0987
lat. 35.00

itempsth: intensity ut = 1.13



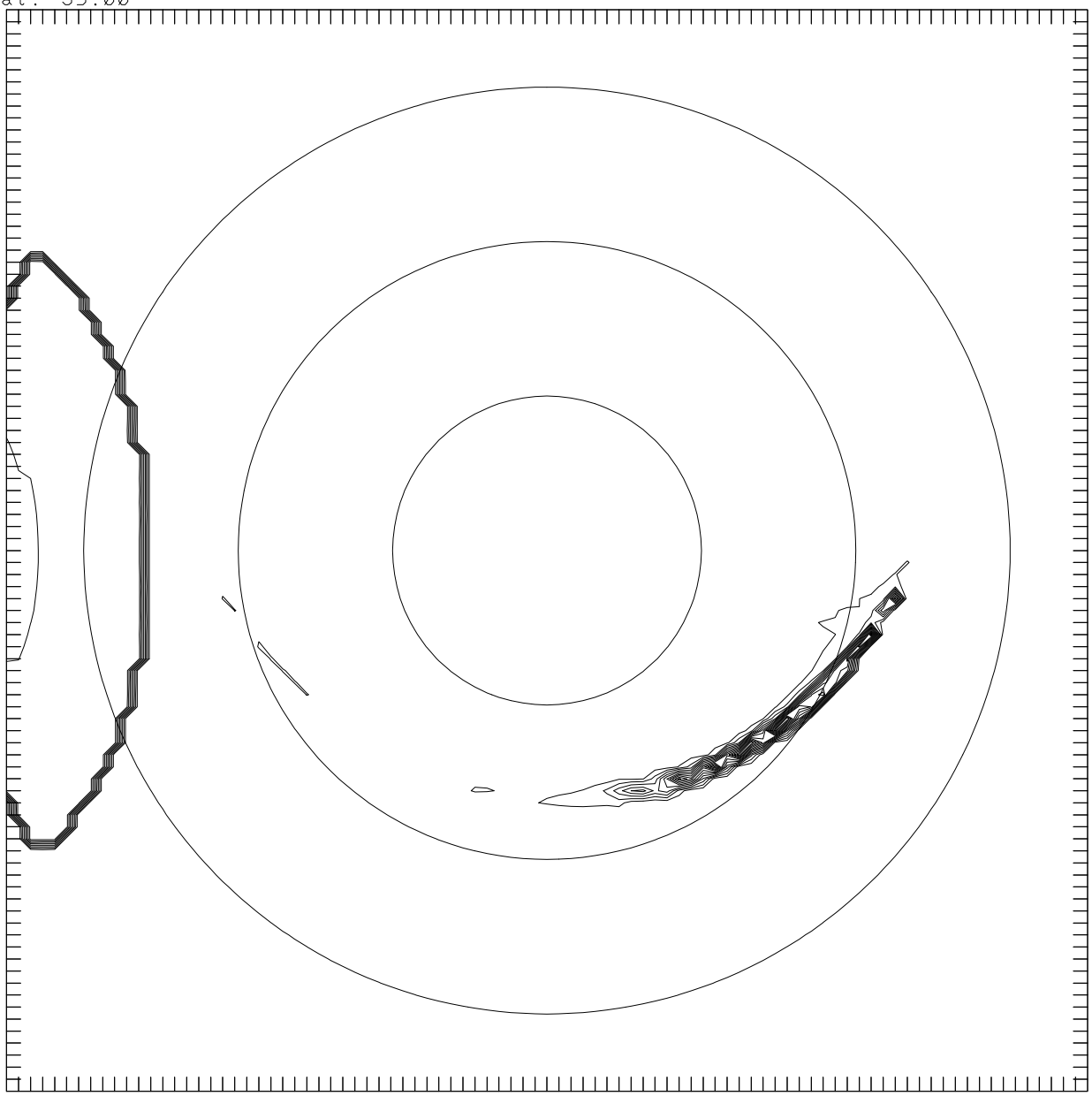
min 0.0000 0.5709
lat. 35.00

otempnth: intensity ut = 1.13



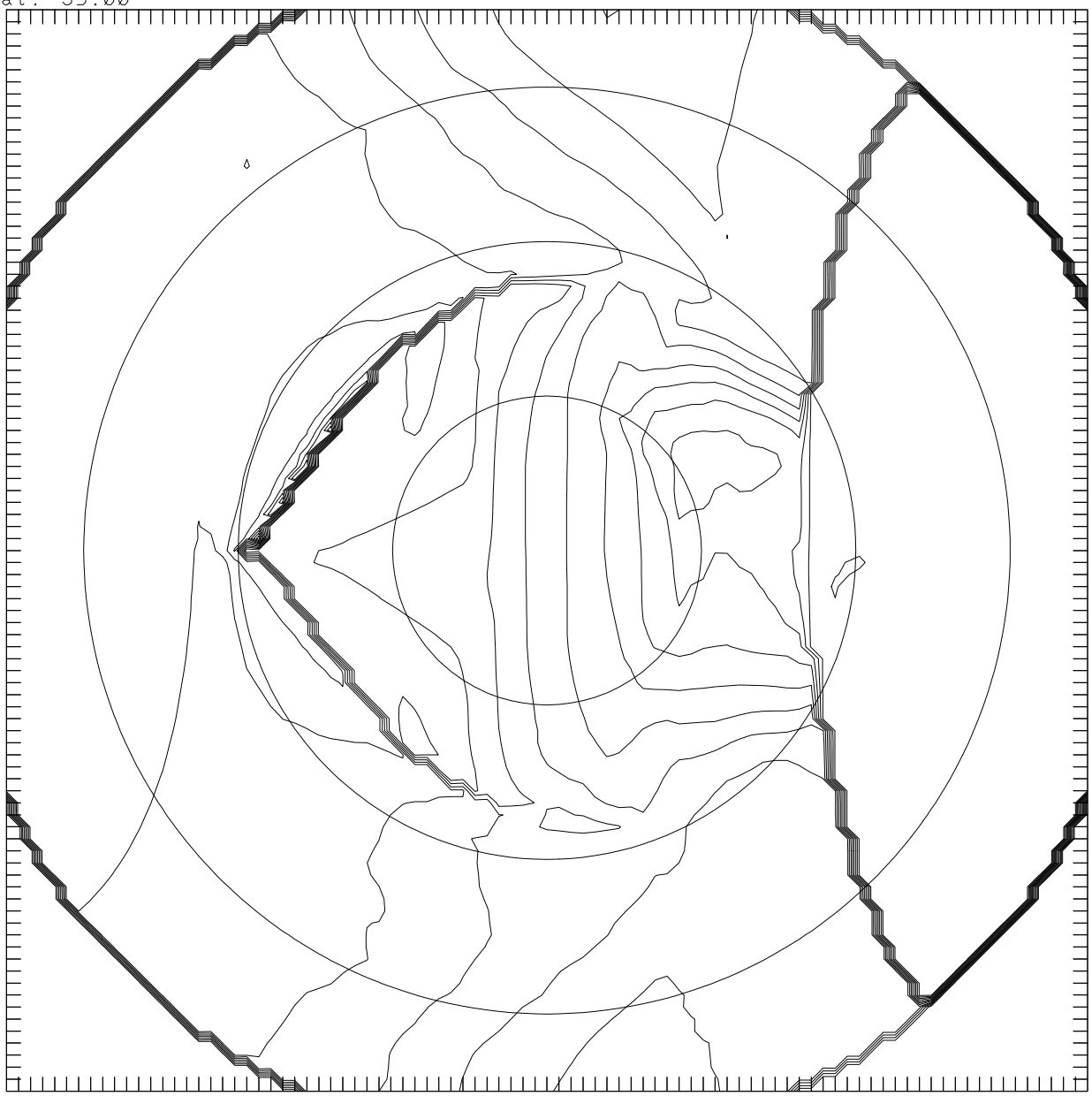
min 0.0000 0.6827
lat. 35.00

otempsth: intensity ut = 1.13



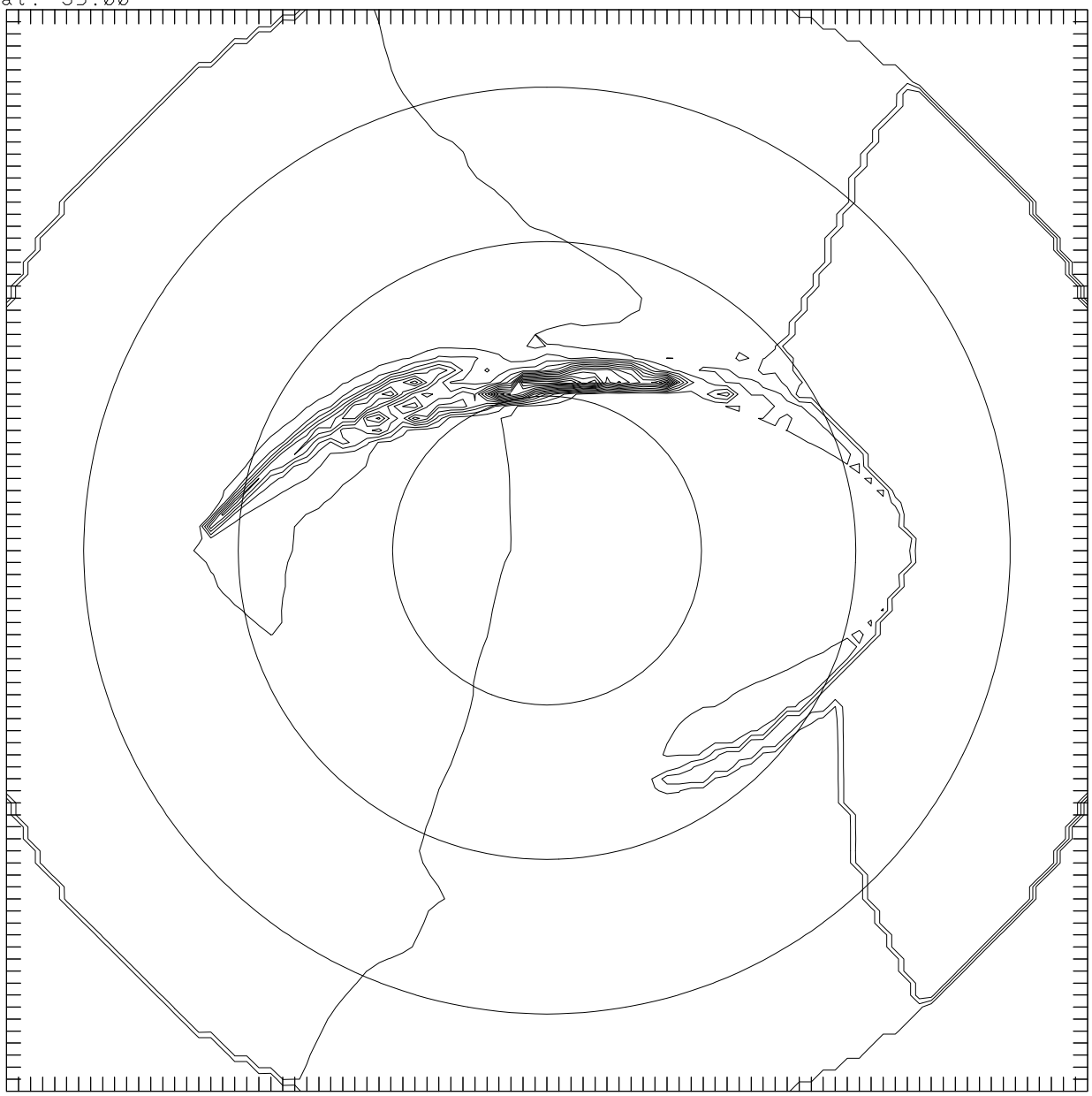
min 0.0000 0.0527
lat. 35.00

qtempnth: intensity ut = 1.13



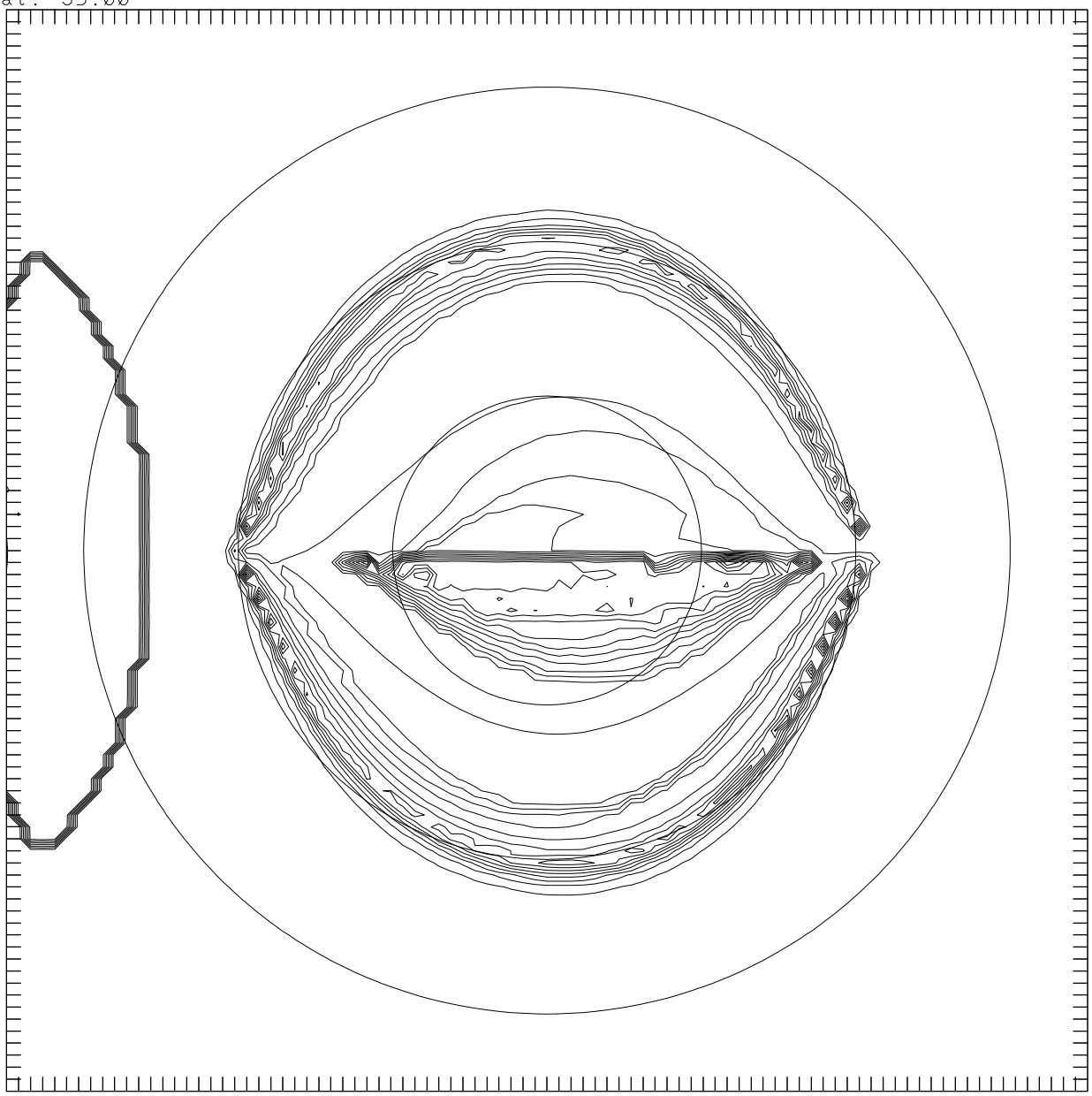
min 0.0000 0.1745
lat. 35.00

qtempsth: intensity ut = 1.13



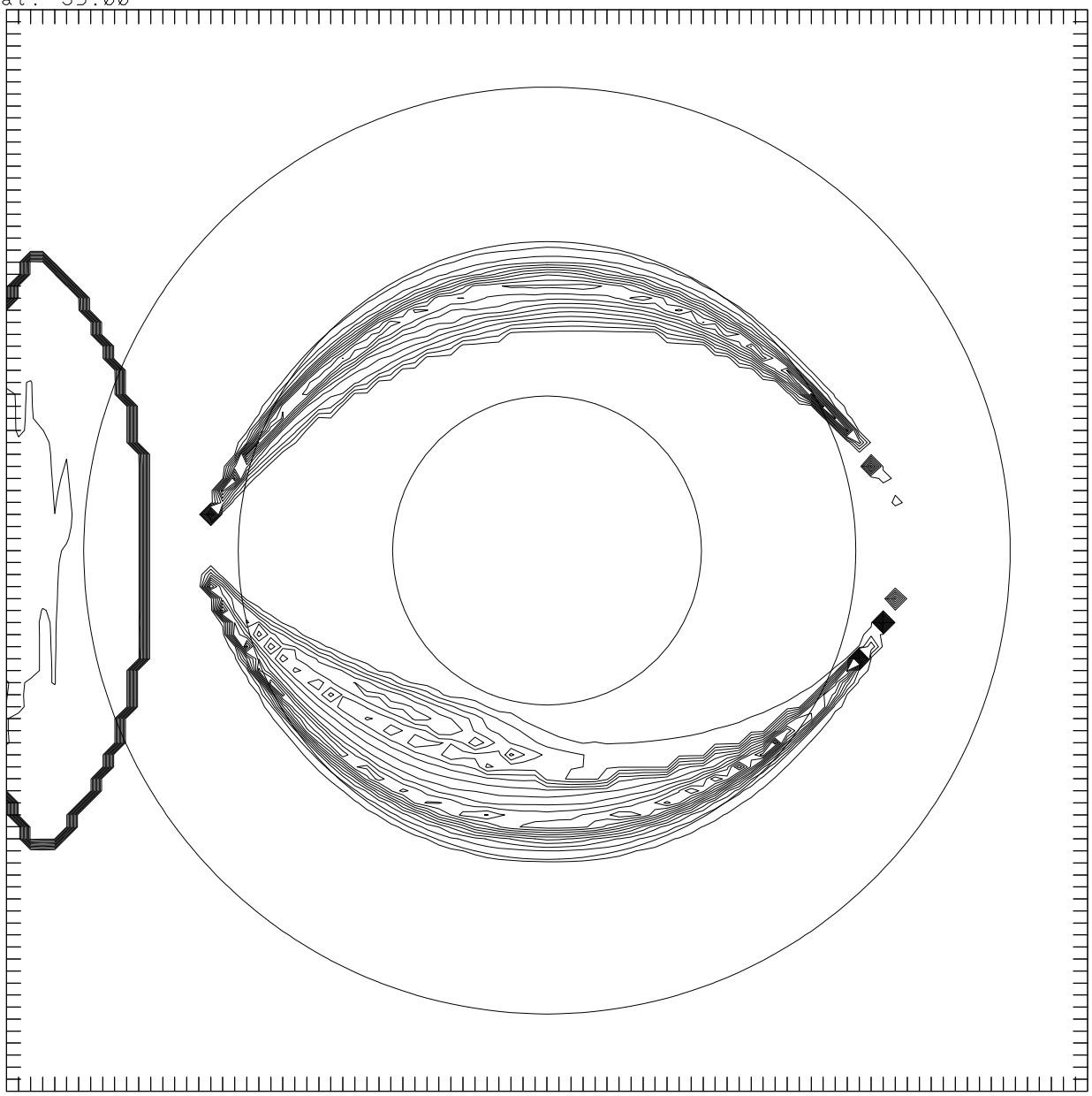
min 0.0000 0.0380
lat. 35.00

htempnth: intensity ut = 1.13



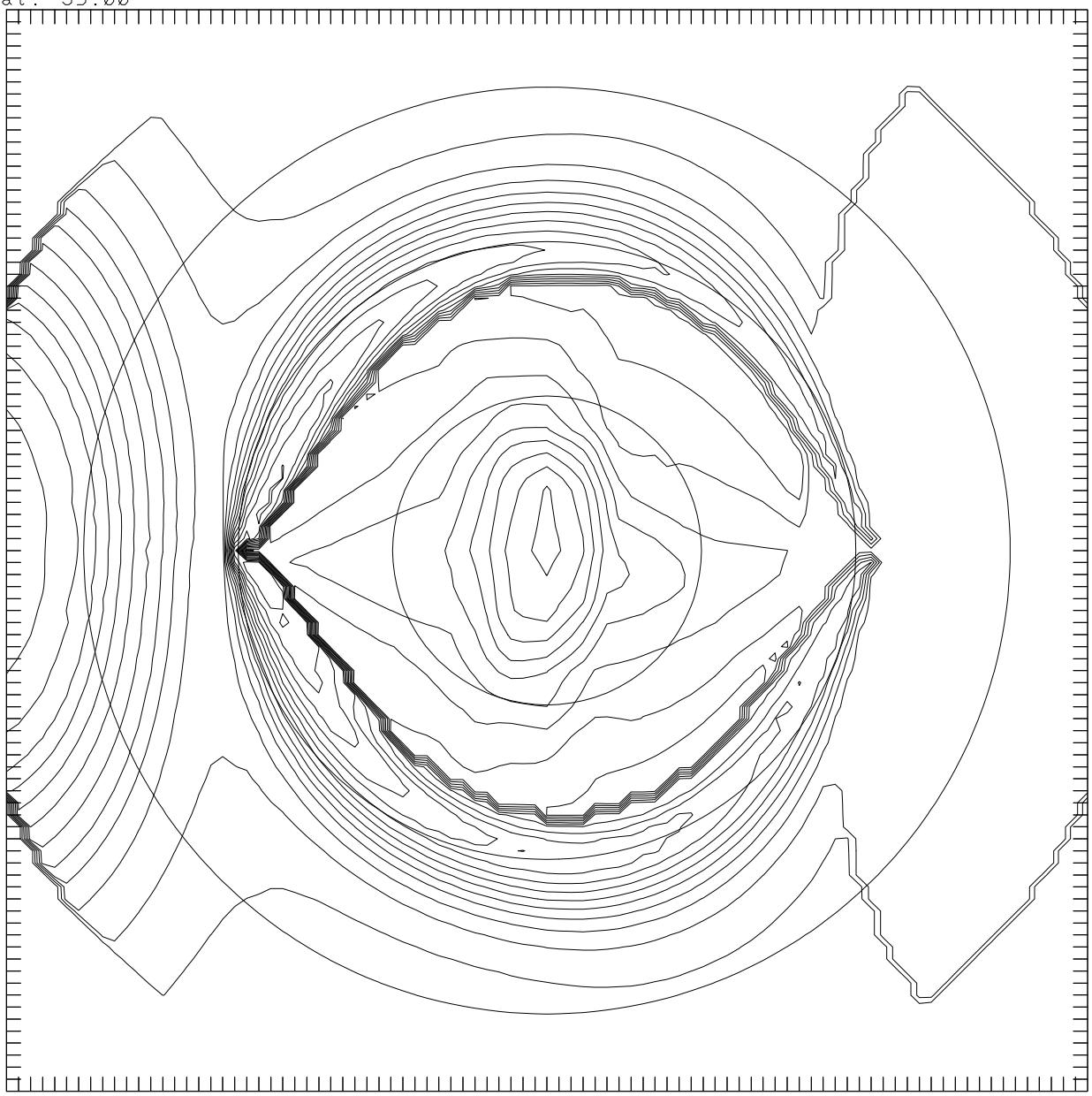
min 0.0000 0.0275
lat. 35.00

htempsth: intensity ut = 1.13



min 0.0000 0.0068
lat. 35.00

etempnth: intensity ut = 1.13



min 0.0000 0.0067
lat. 35.00

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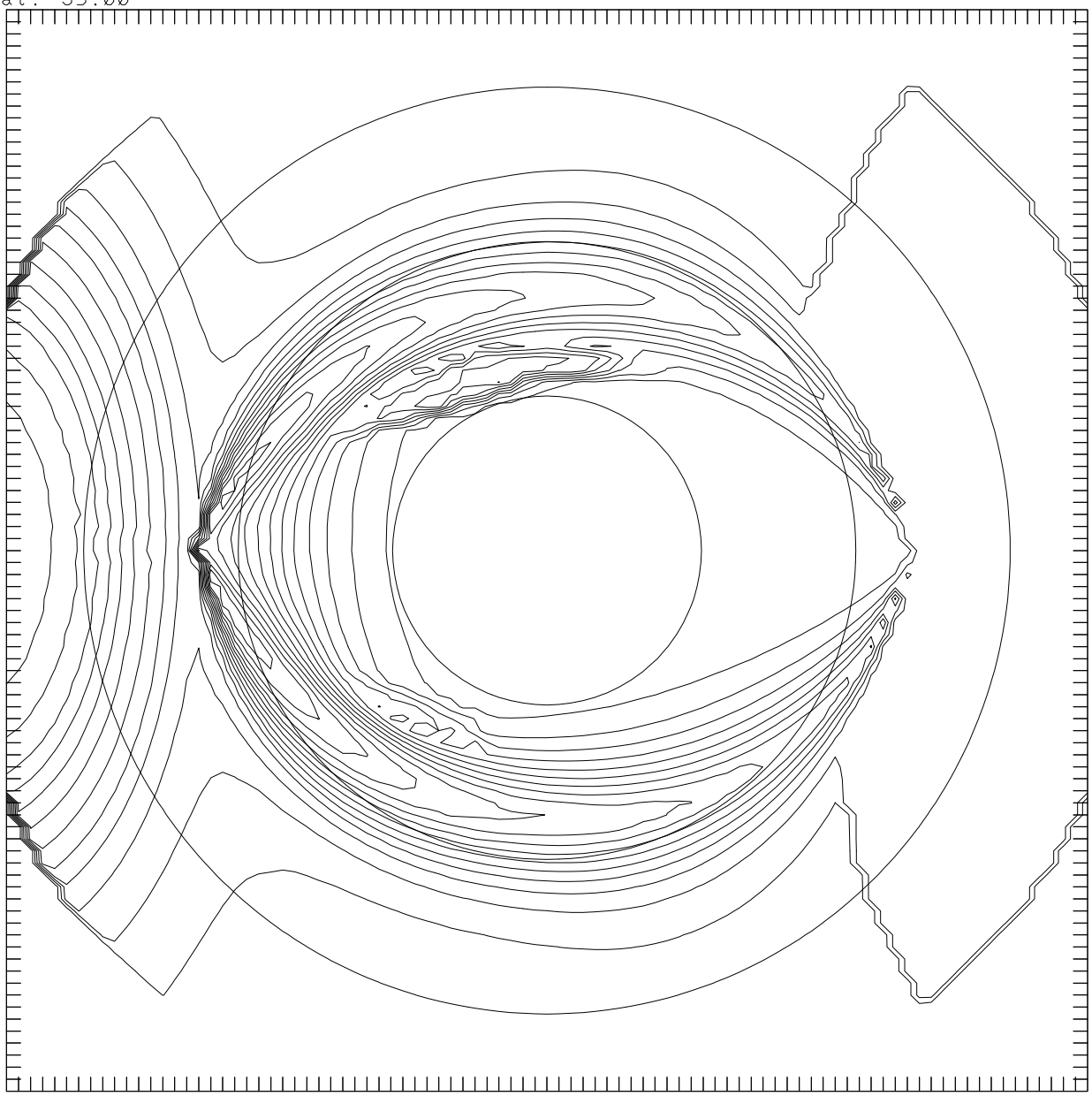

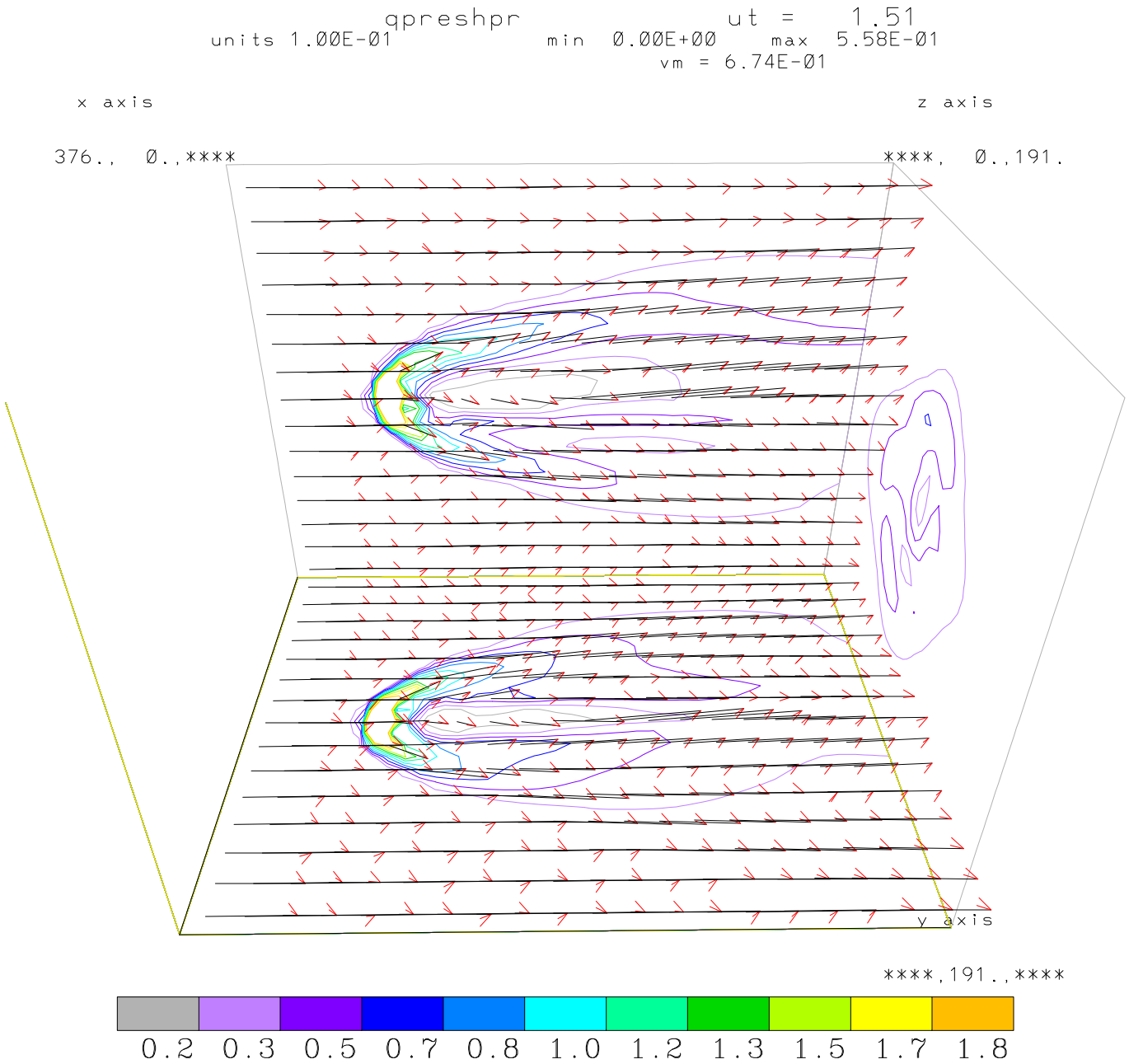
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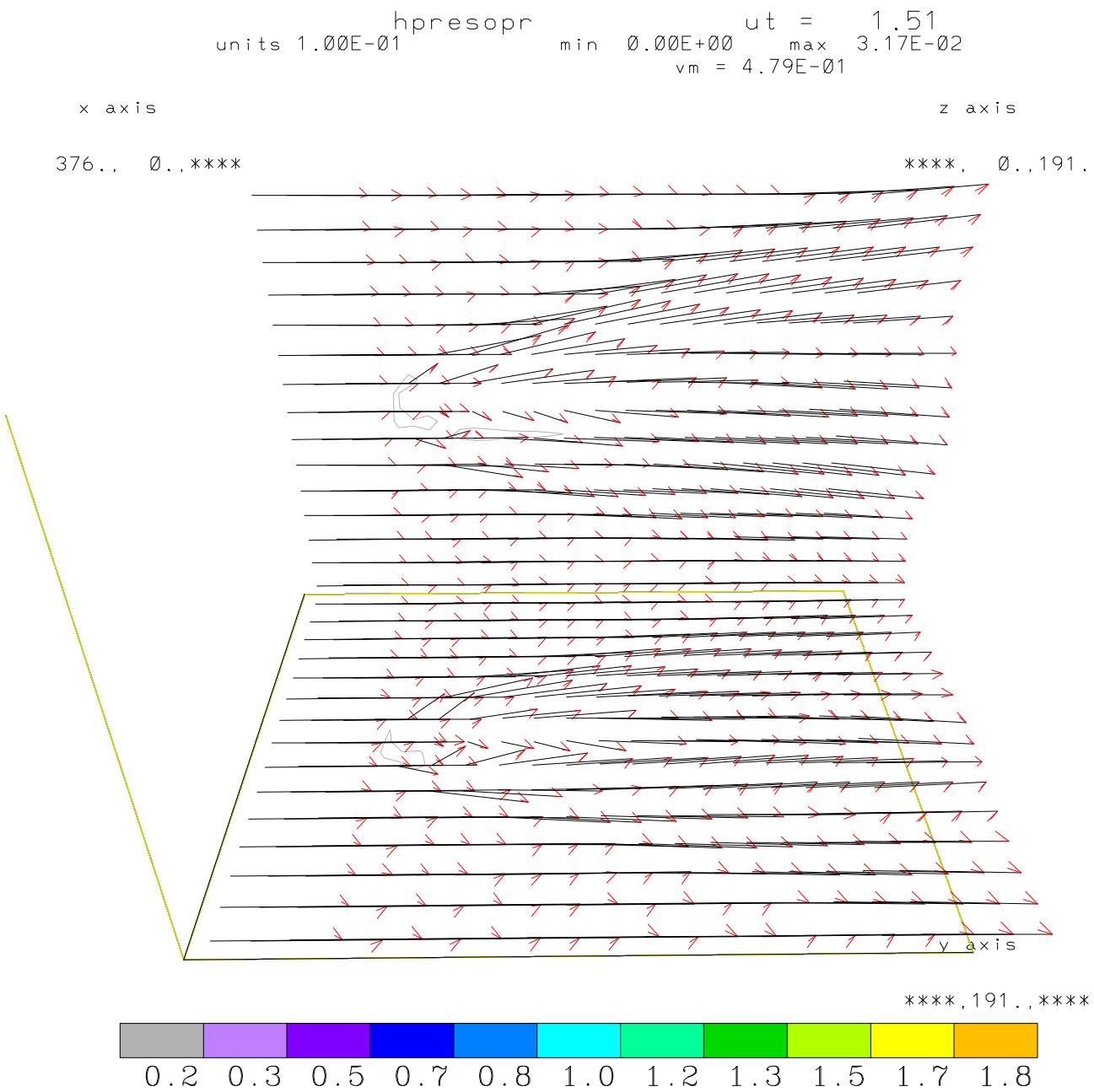
units 1.00E-01
min 0.00E+00
max 5.58E-01
vm = 6.74E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8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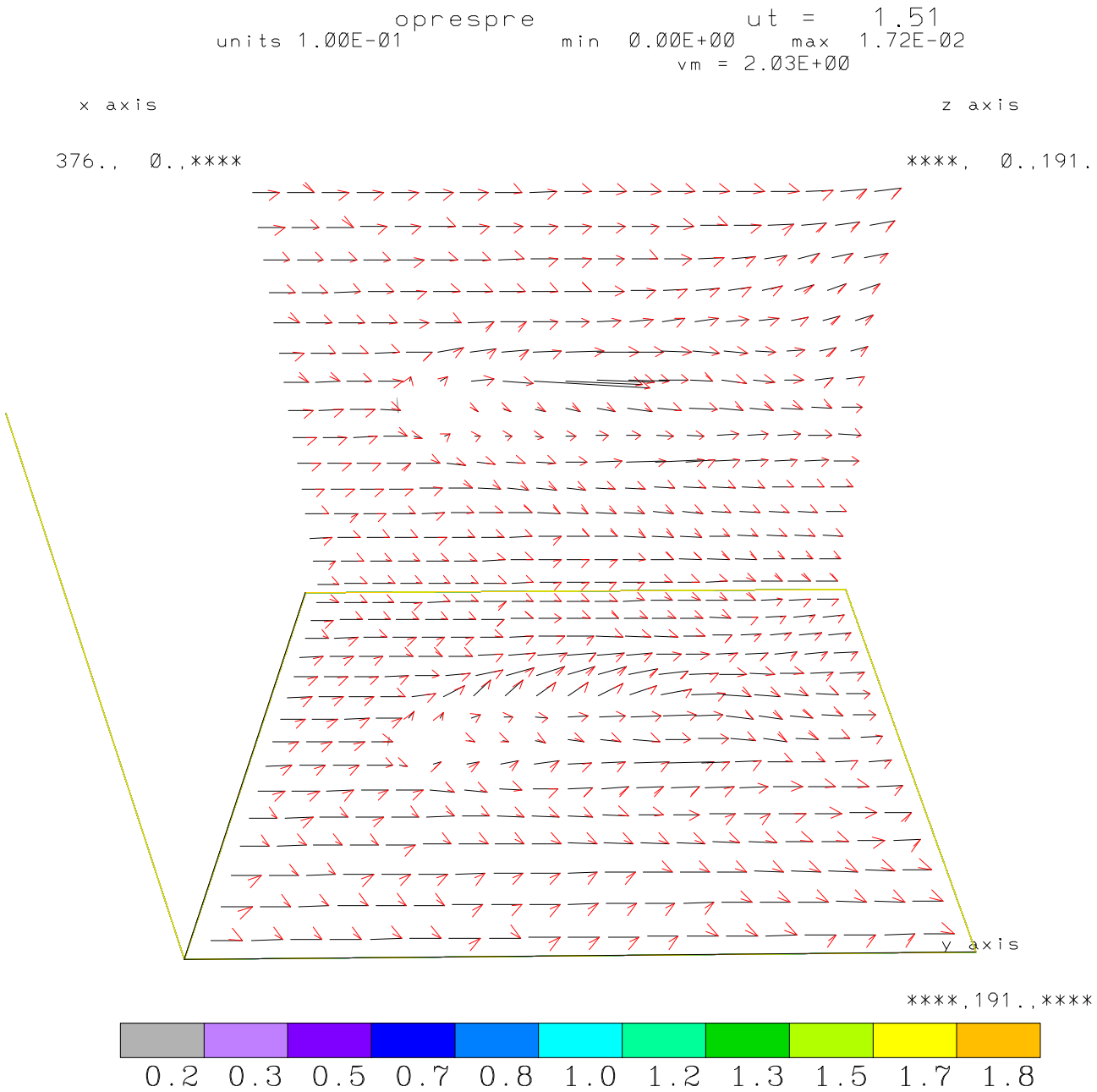
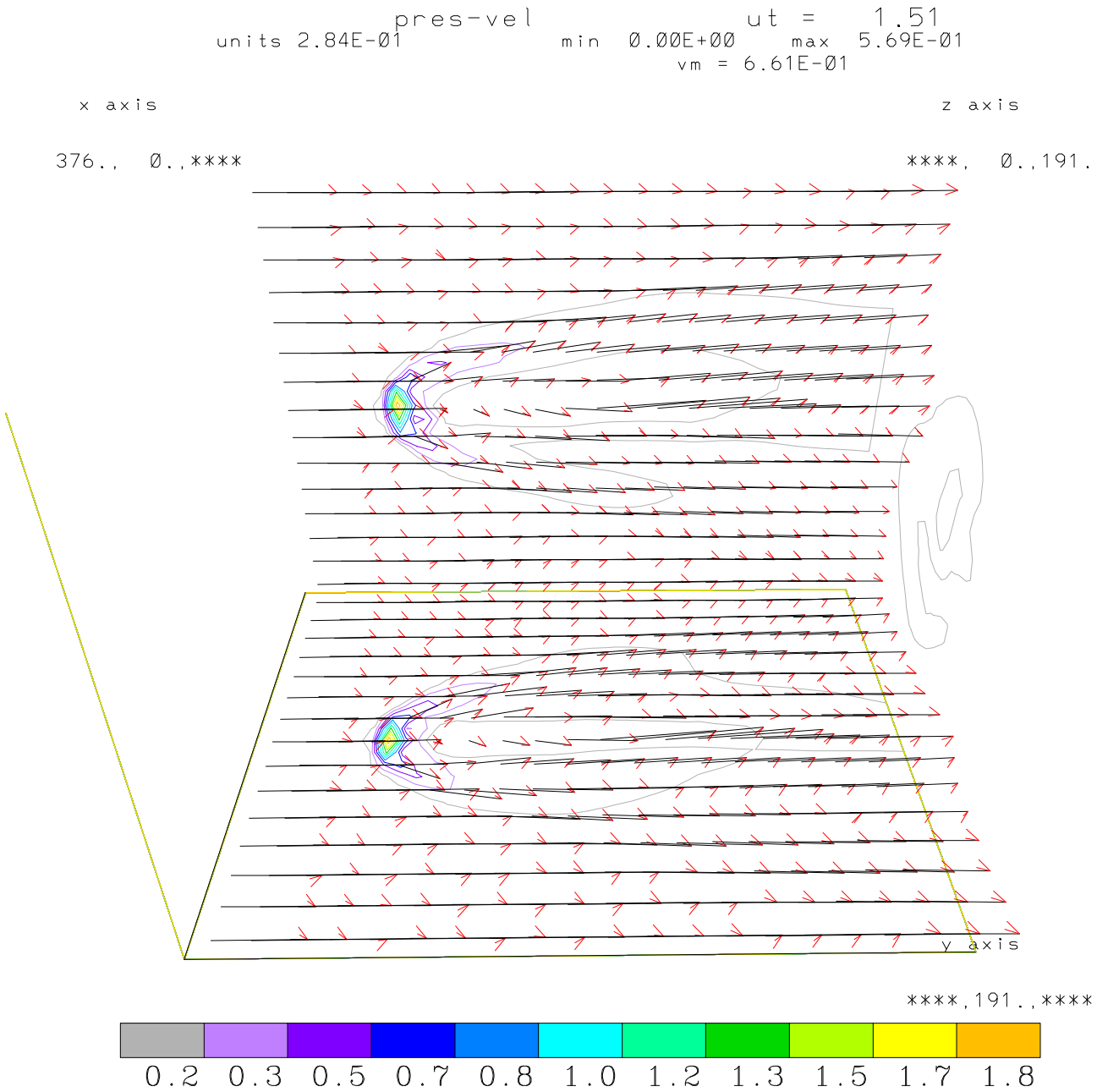
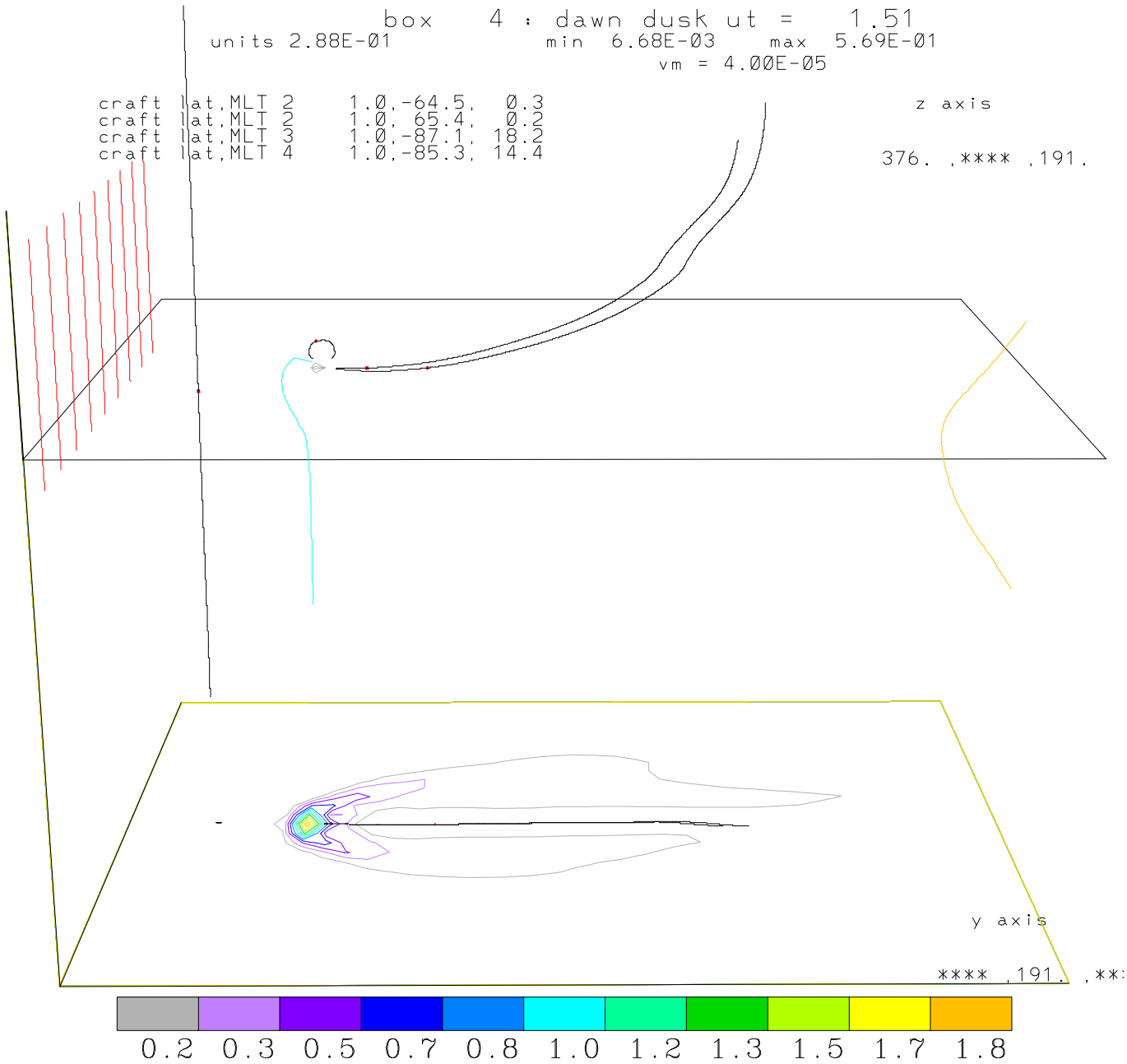
units 1.00E-01
min 0.00E+00
max 3.17E-02
vm = 4.79E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.51
units 1.00E-01
min 0.00E+00
max 1.72E-02
vm = 2.03E+00
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.51
units 2.84E-01
min 0.00E+00
max 5.69E-01
vm = 6.61E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 4 : dawn dusk ut = 1.51
units 2.88E-01
min 6.68E-03 max 5.69E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-64.5, 0.3
craft lat,MLT 2 1.0, 65.4, 0.2
craft lat,MLT 3 1.0,-87.1, 18.2
craft lat,MLT 4 1.0,-85.3, 14.4
z axis
376. ,**** ,191.
y axis
**** ,191. ,**:
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

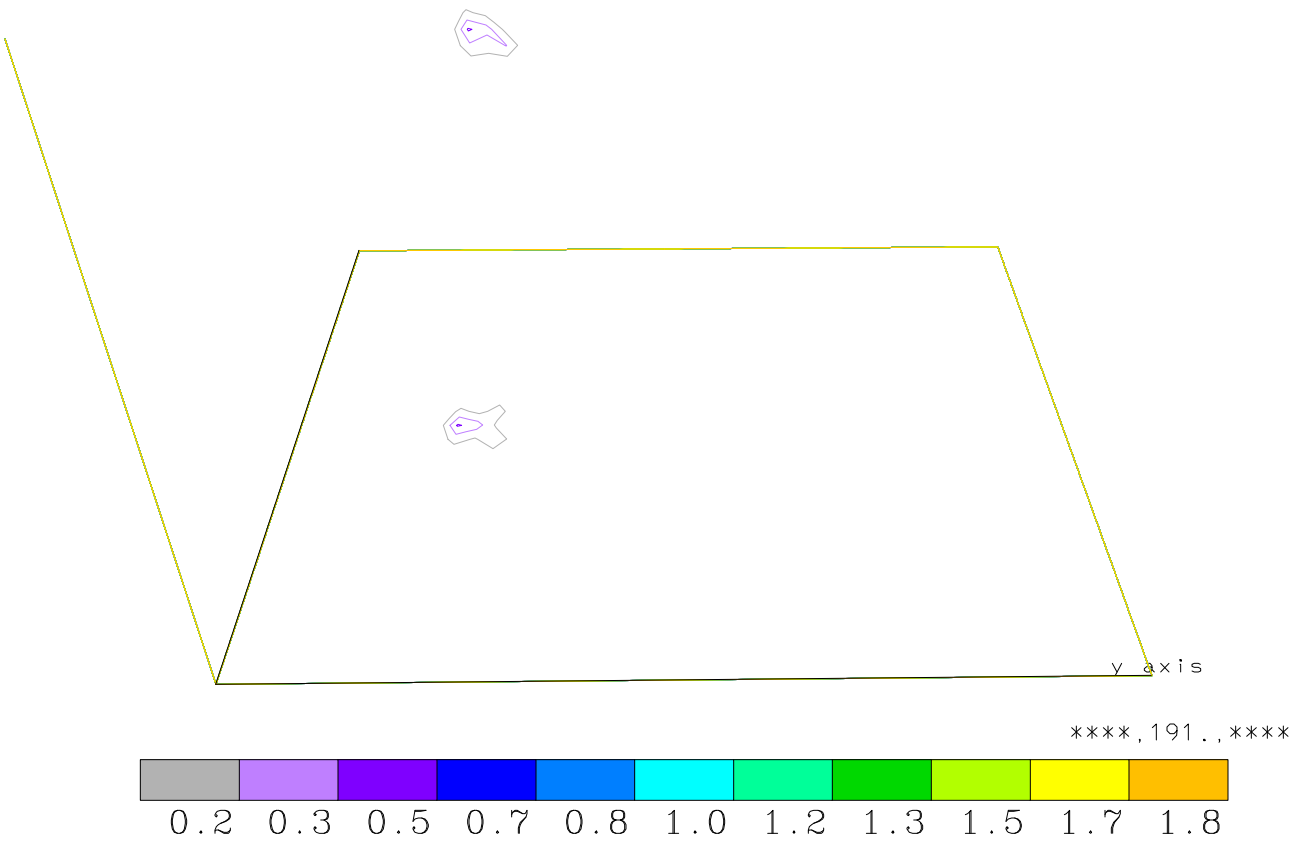
epresq t ut = 1.51

units 2.00E-01 min 0.00E+00 max 1.05E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



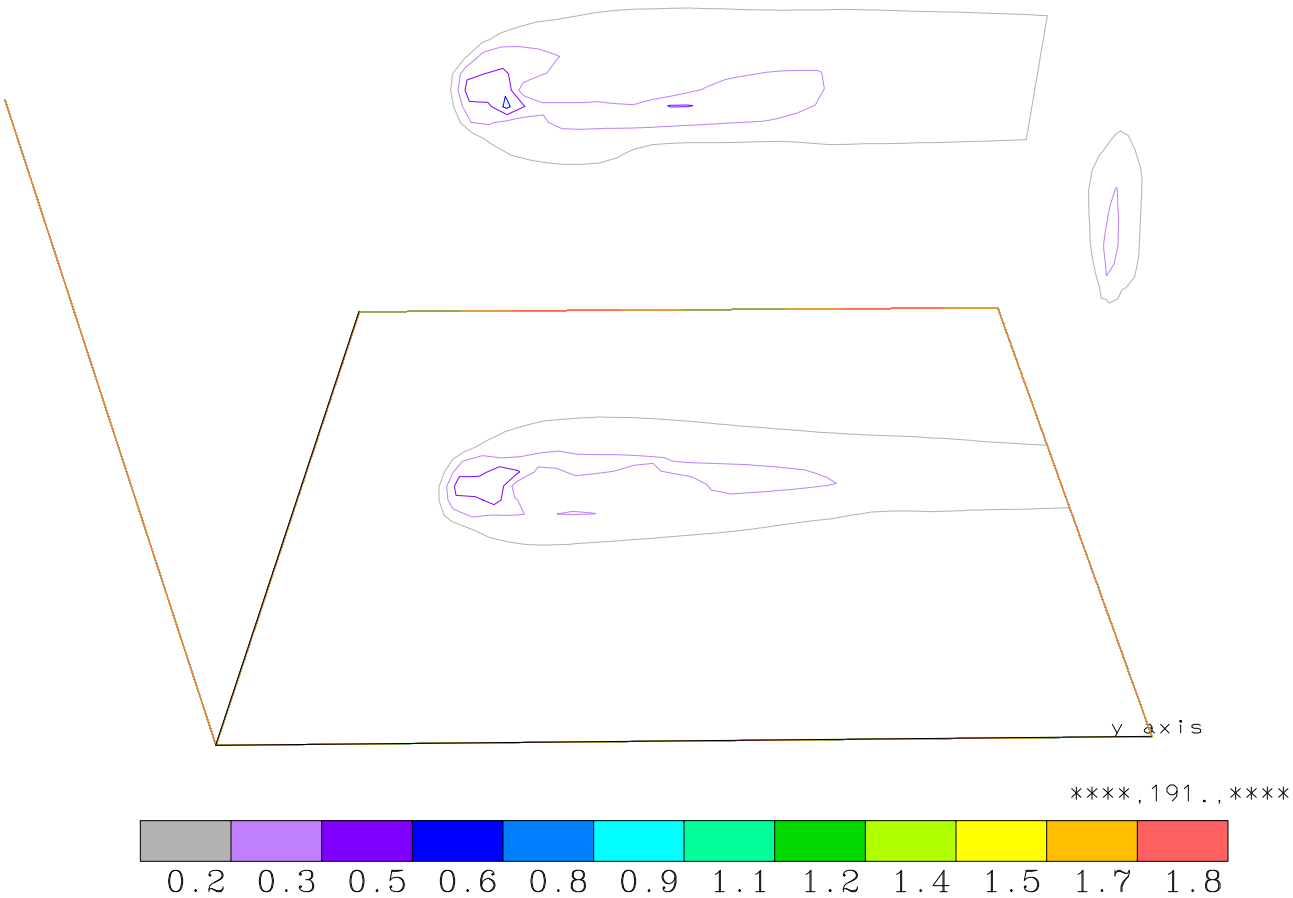
q temph ut = 1.51

units 2.50E-01 min 0.00E+00 max 1.65E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



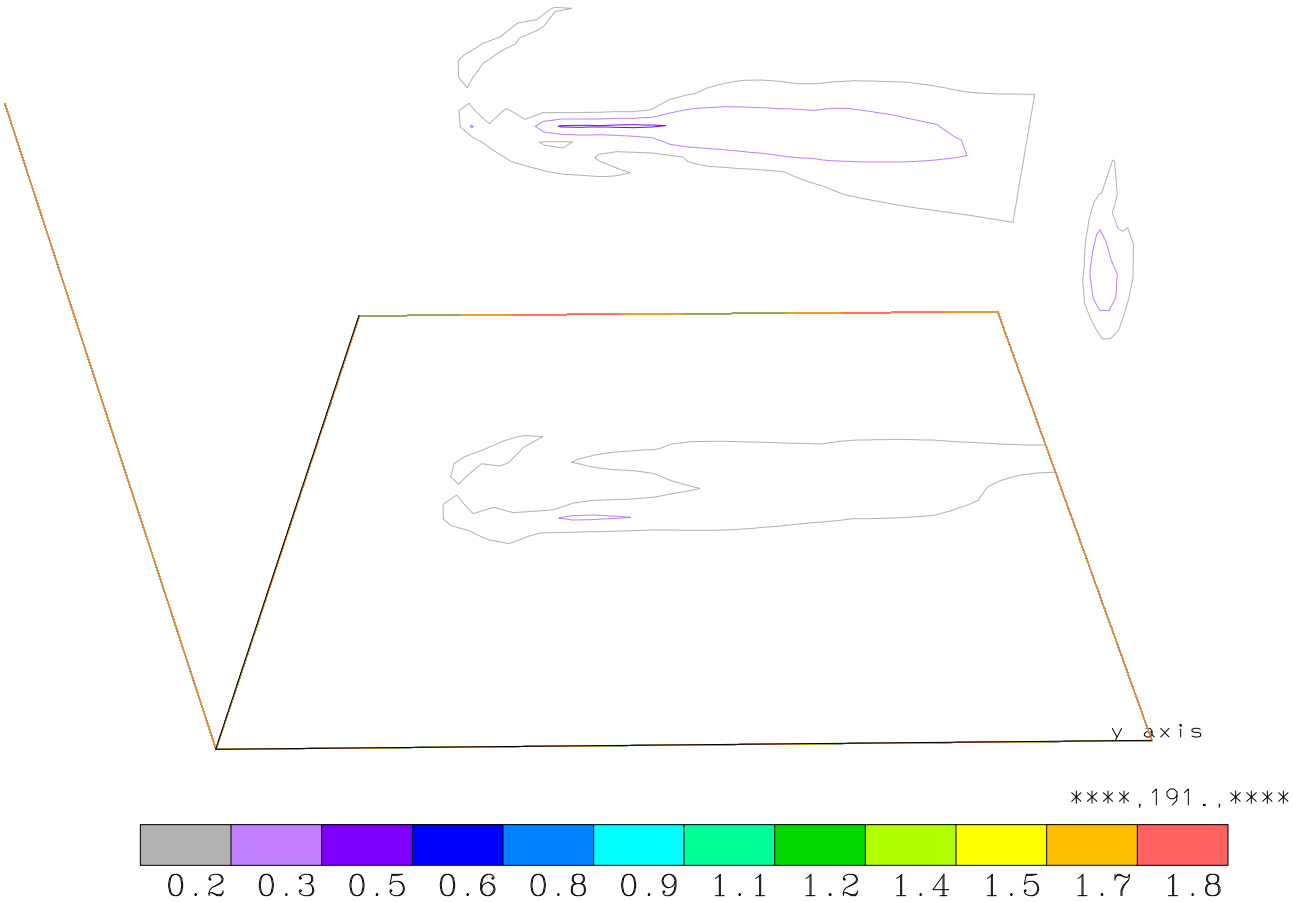
h tempo ut = 1.51

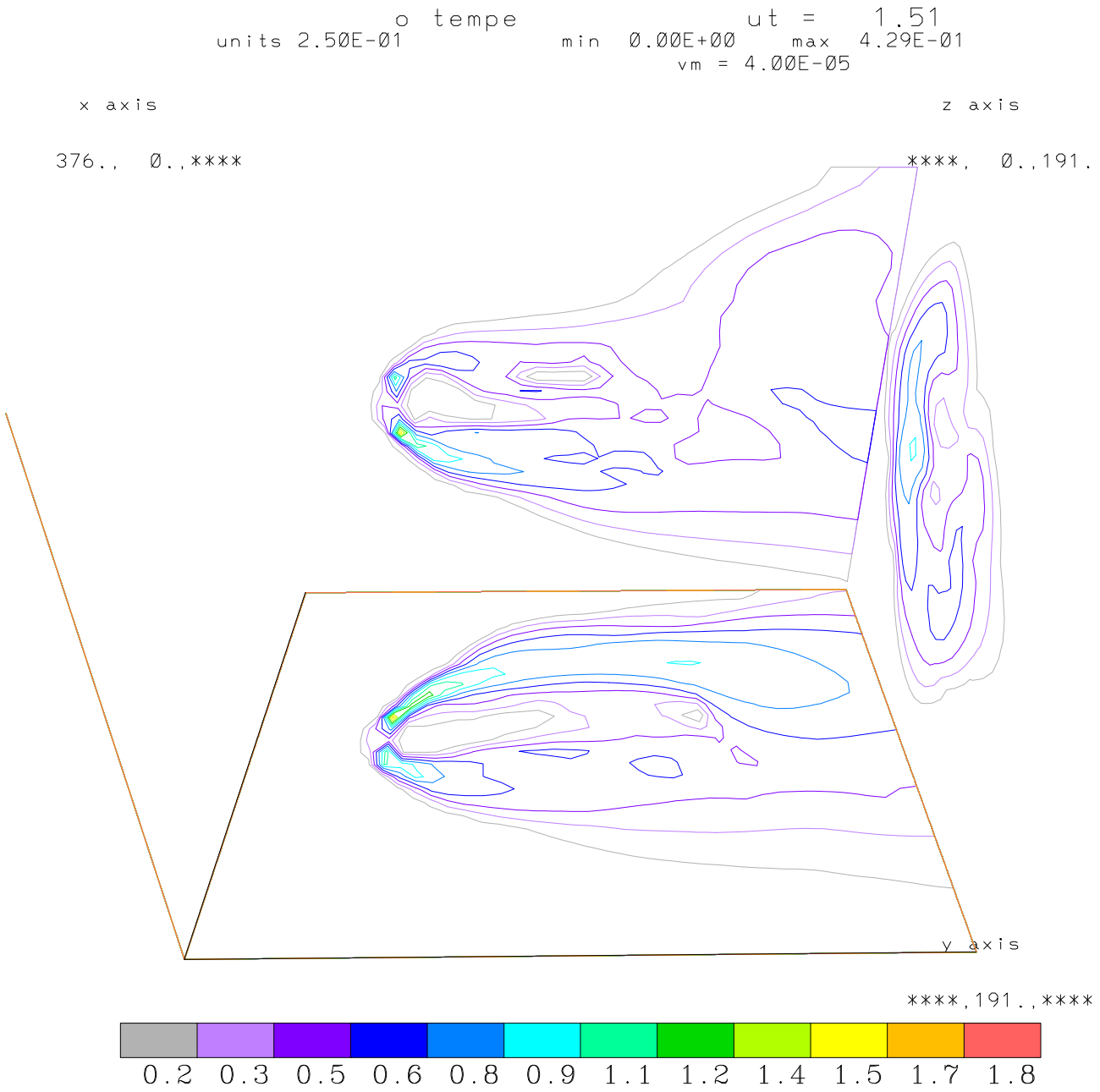
units 2.50E-01 min 0.00E+00 max 1.25E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




o tempe
ut = 1.51
units 2.50E-01
min 0.00E+00
max 4.29E-01
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

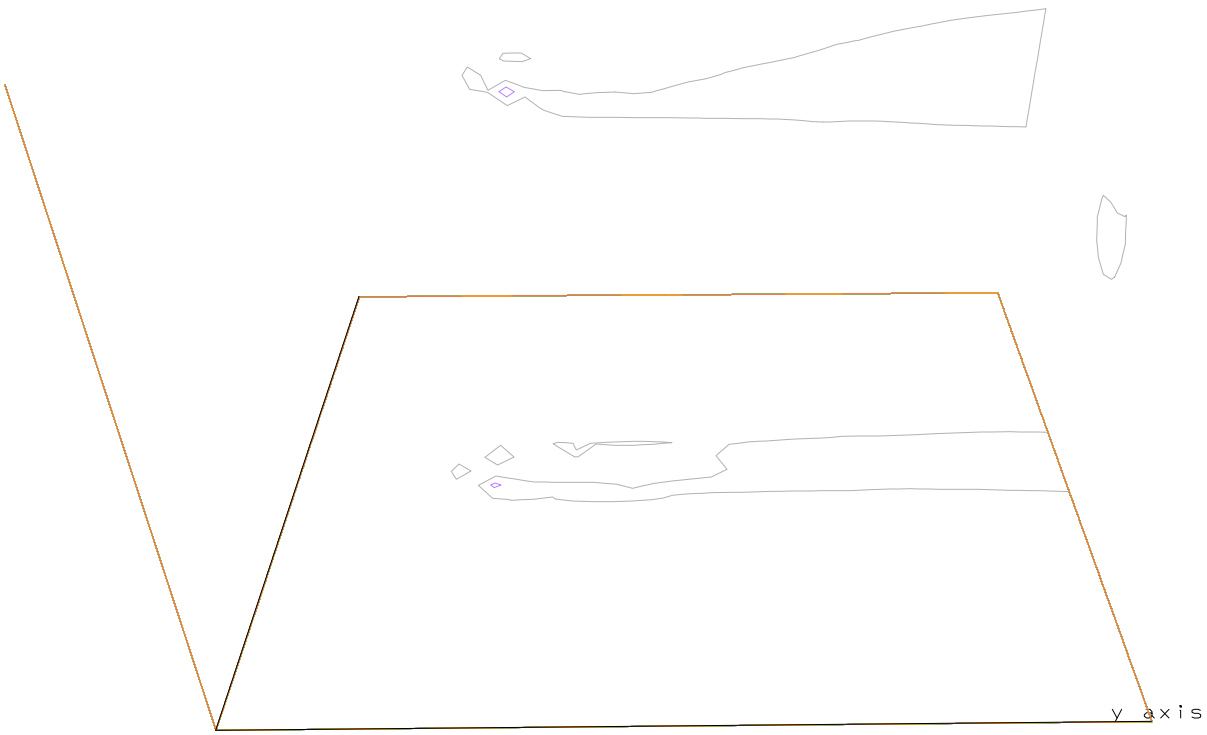
e tempq ut = 1.51

units 1.12E-01 min 0.00E+00 max 4.54E-02

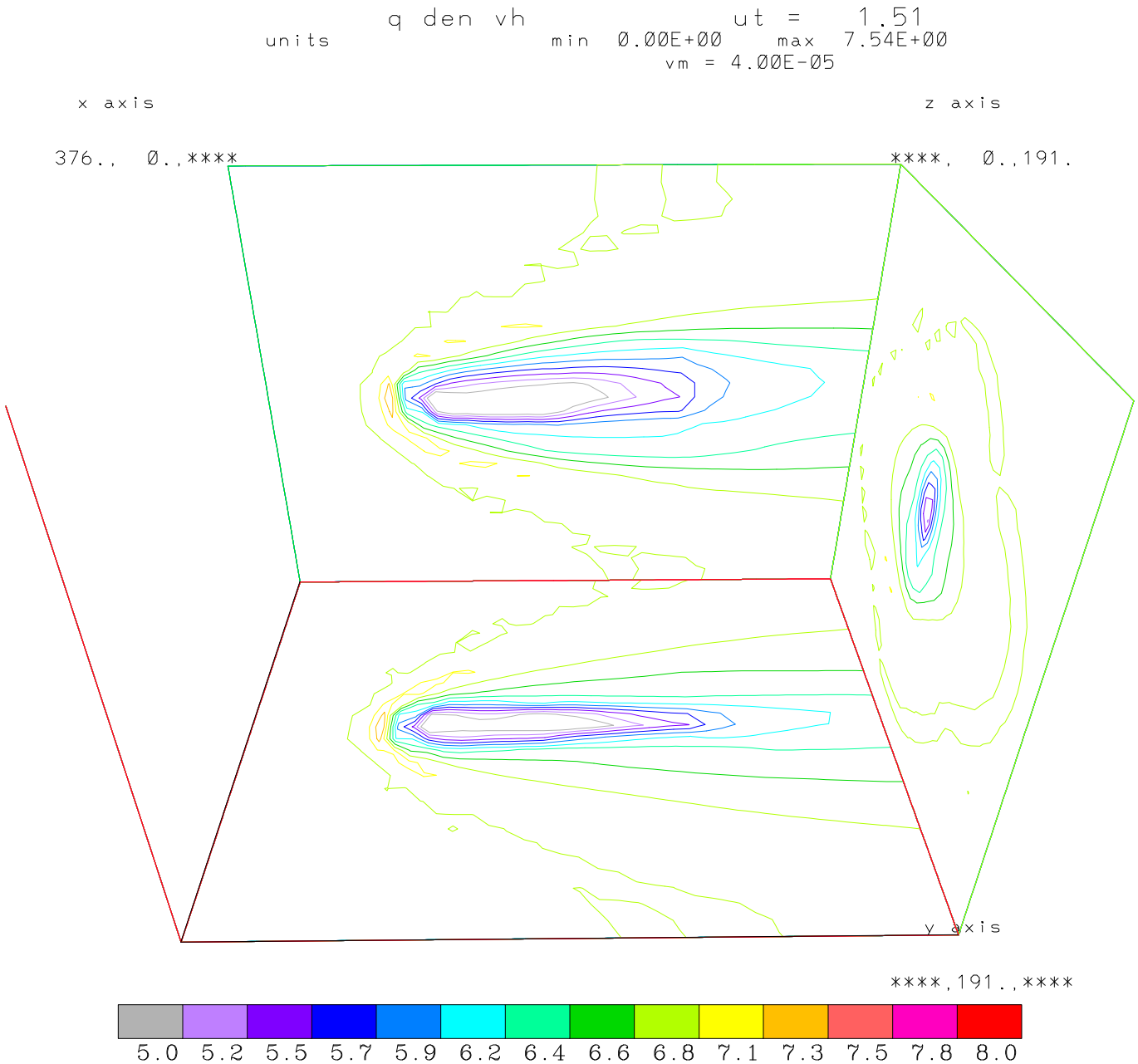
vm = 4.00E-05

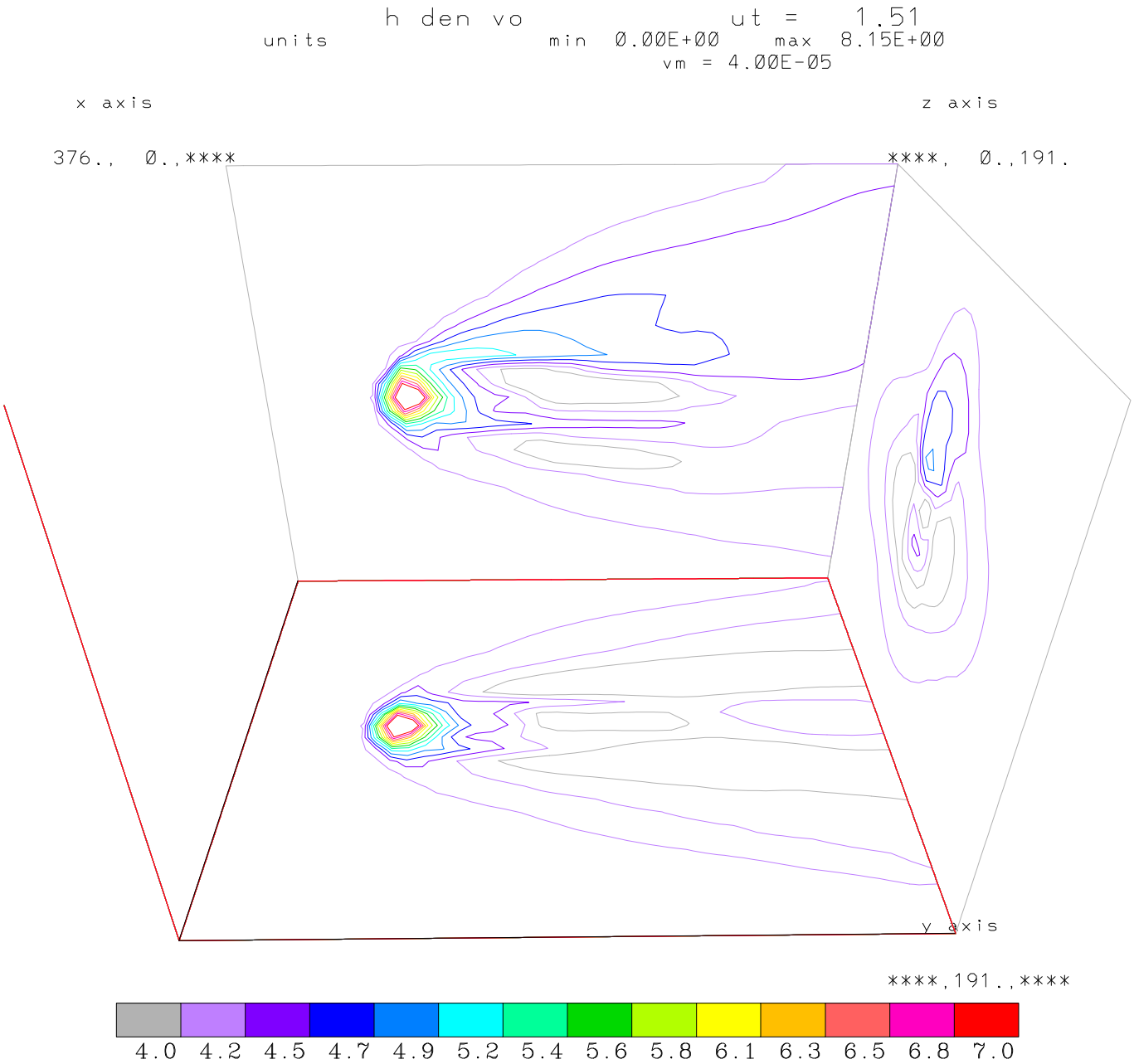
x axis z axis

376., 0.,**** ****, 0.,191.



****,191.,****


q den vh
ut = 1.51
units
min 0.00E+00
max 7.54E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 1.51
units min 0.00E+00 max 8.15E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

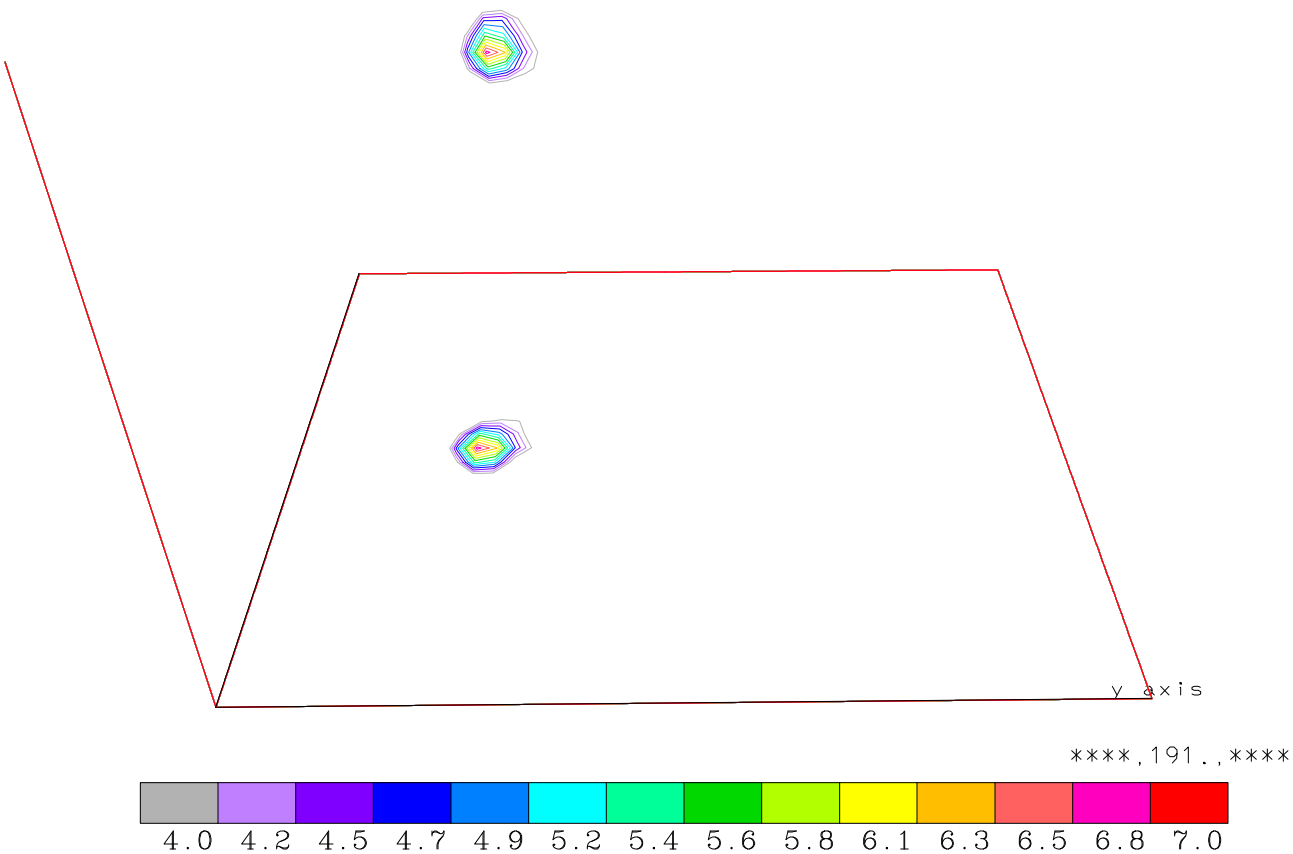
o den vt ut = 1.51

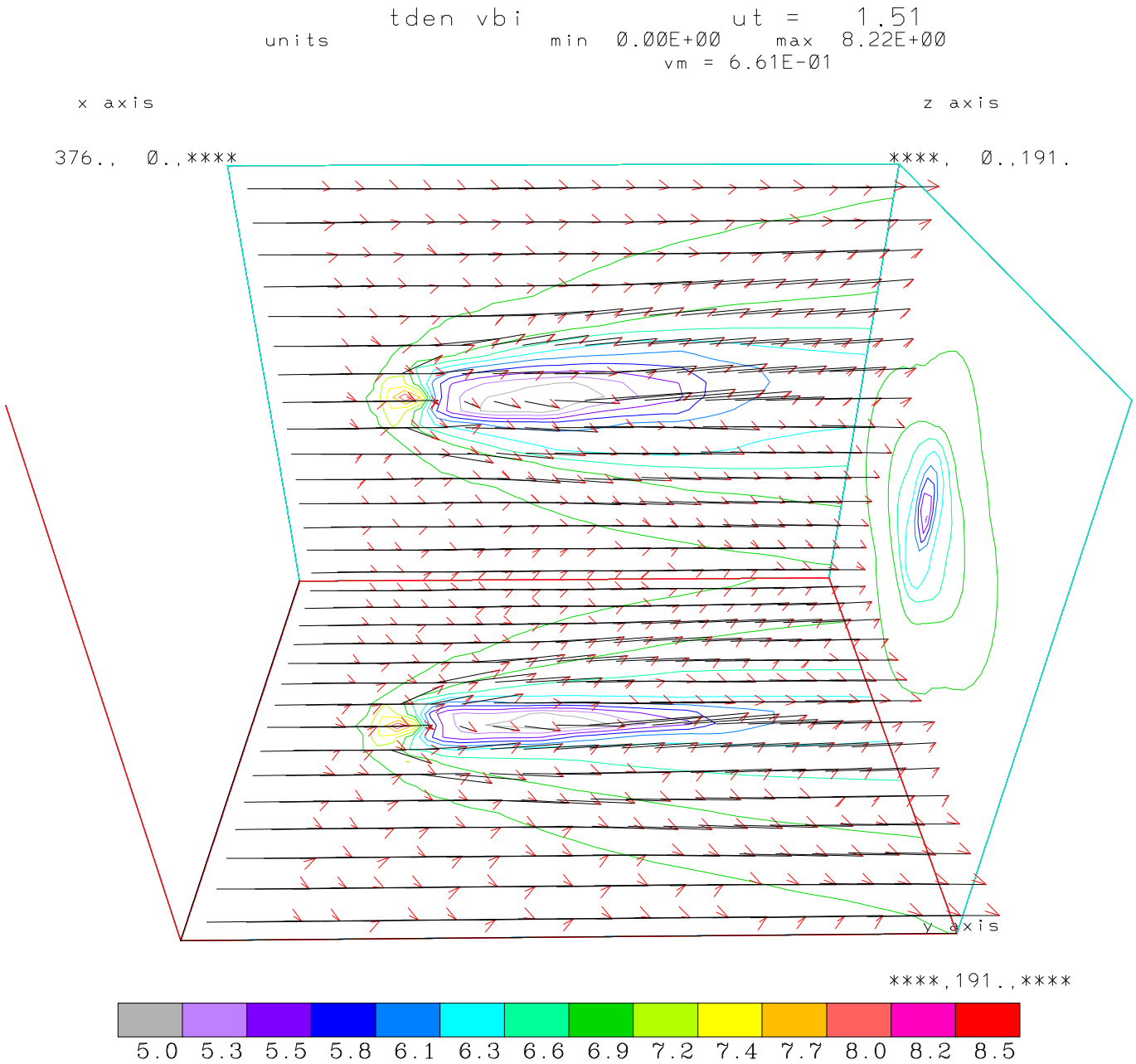
units min 0.00E+00 max 6.88E+00

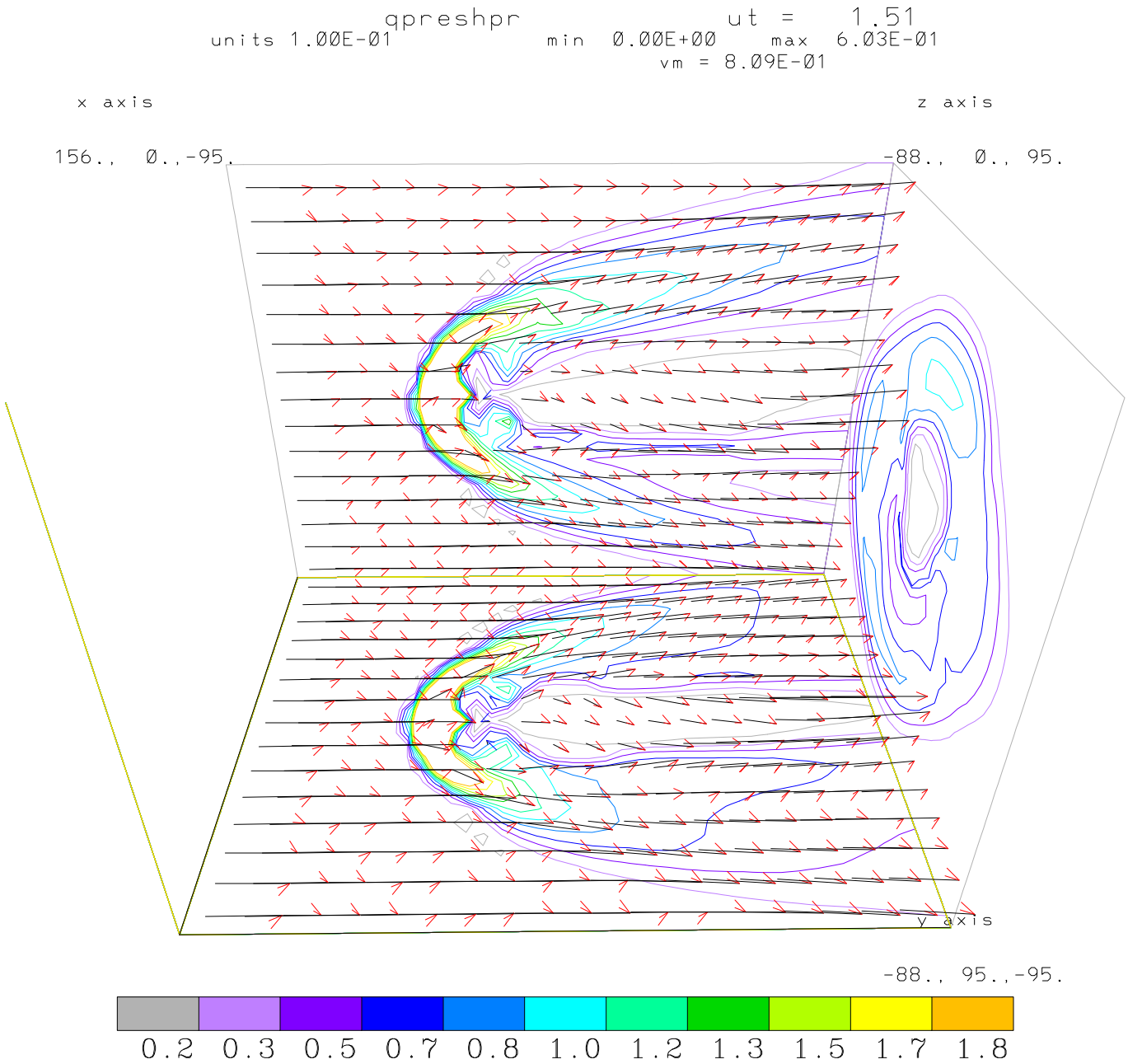
vm = 4.00E-05

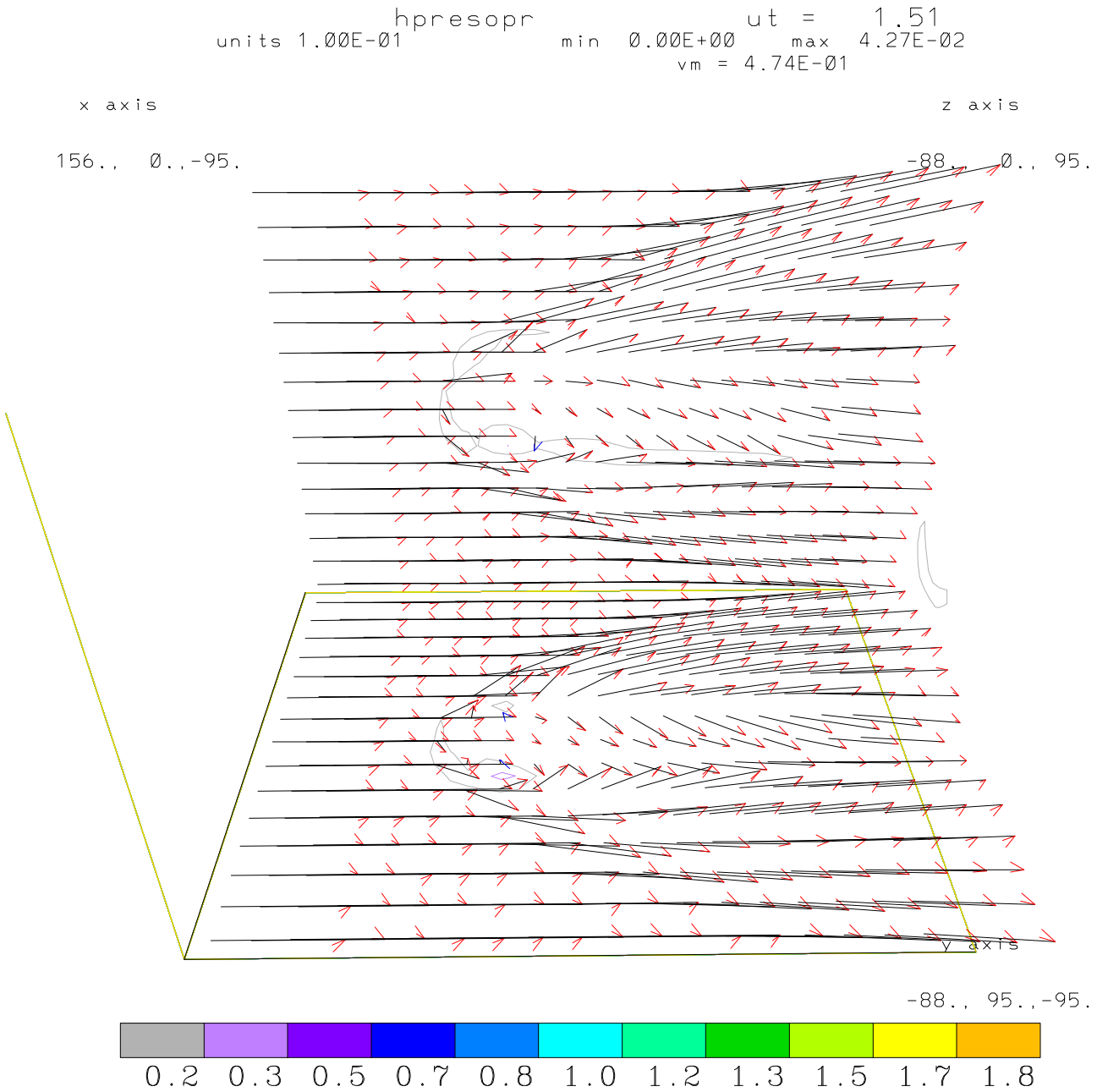
x axis z axis

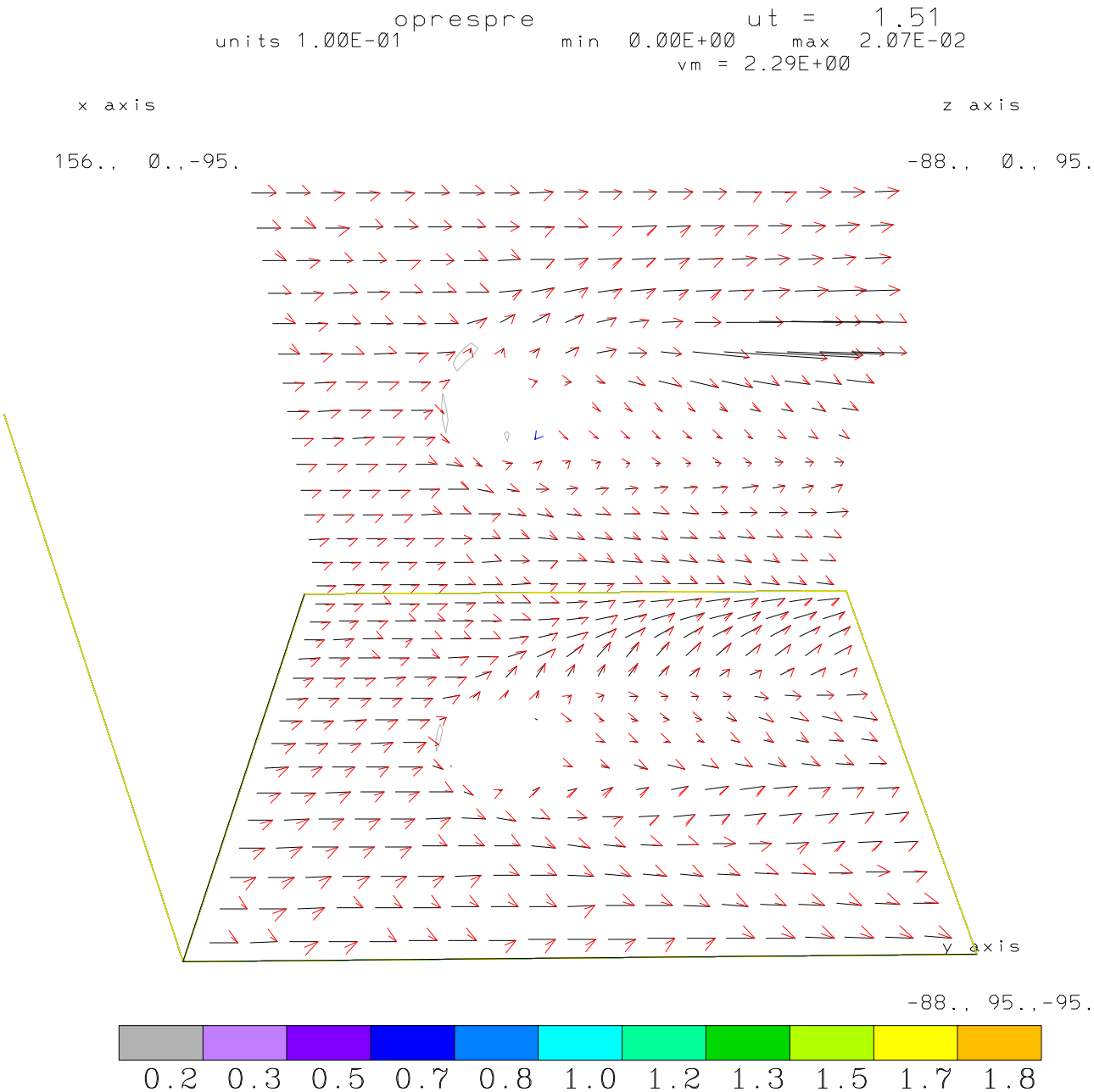
376., 0.,**** ****, 0.,191.

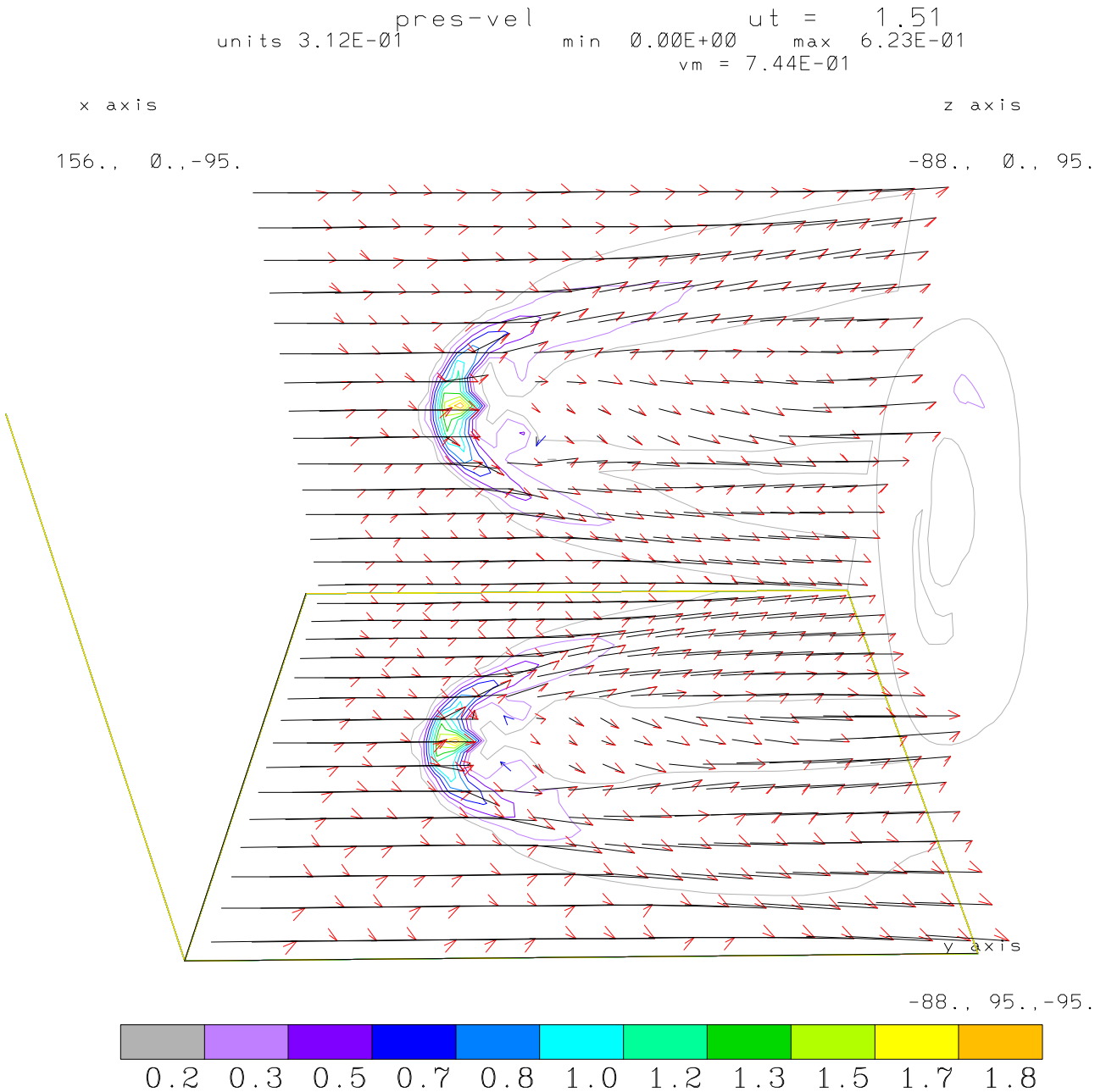


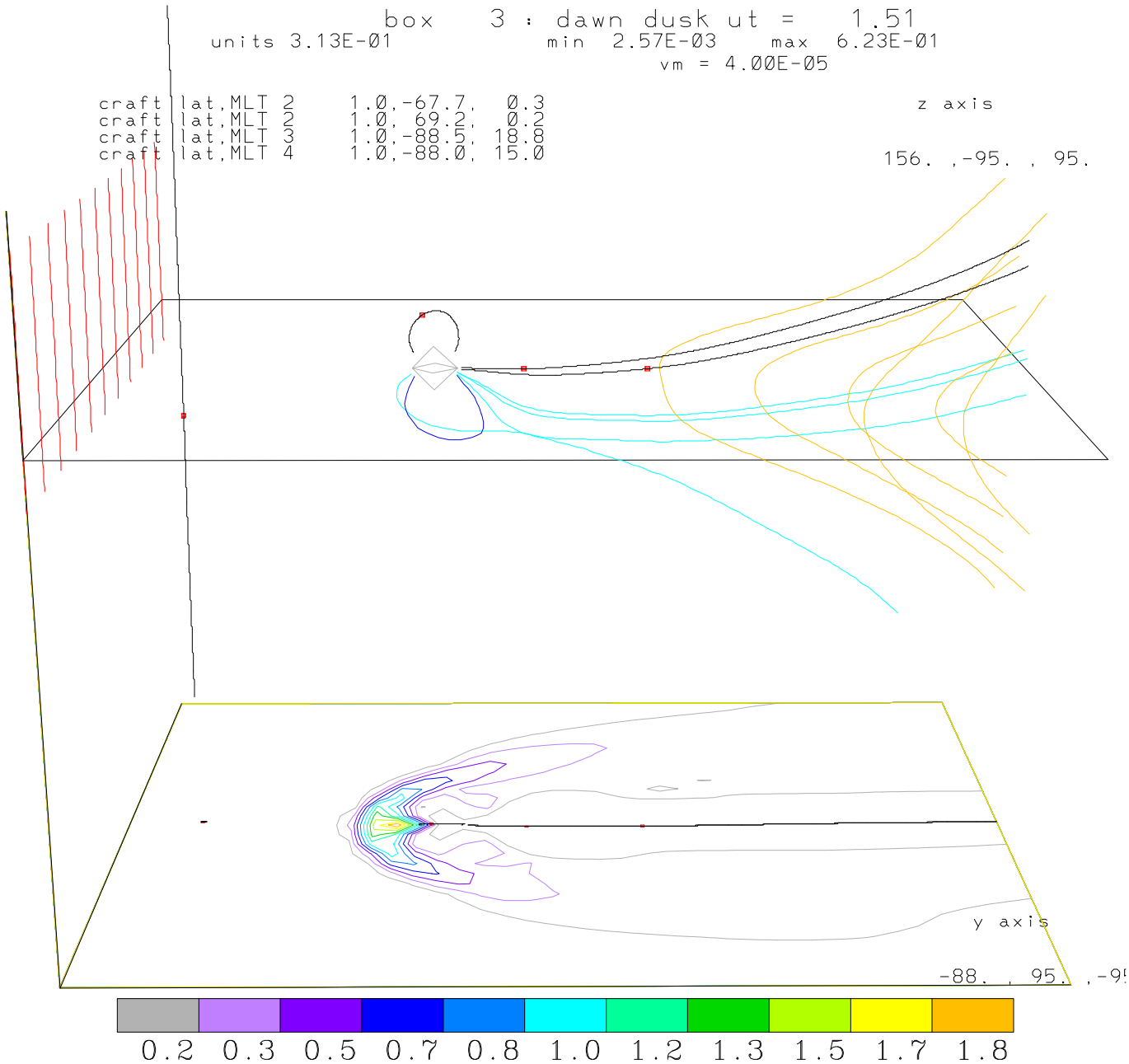

tden vbi
ut = 1.51
units
min 0.00E+00
max 8.22E+00
vm = 6.61E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.51
units 1.00E-01
min 0.00E+00
max 6.03E-01
vm = 8.09E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.51
units 1.00E-01
min 0.00E+00
max 4.27E-02
vm = 4.74E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.51
units 1.00E-01
min 0.00E+00
max 2.07E-02
vm = 2.29E+00
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.51
units 3.12E-01
min 0.00E+00
max 6.23E-01
vm = 7.44E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 3 : dawn dusk ut = 1.51
units 3.13E-01
min 2.57E-03 max 6.23E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.7, 0.3
craft lat,MLT 2 1.0, 69.2, 0.2
craft lat,MLT 3 1.0,-88.5, 18.8
craft lat,MLT 4 1.0,-88.0, 15.0
z axis
156. ,-95. , 95.
y axis
-88. , 95. ,-9
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

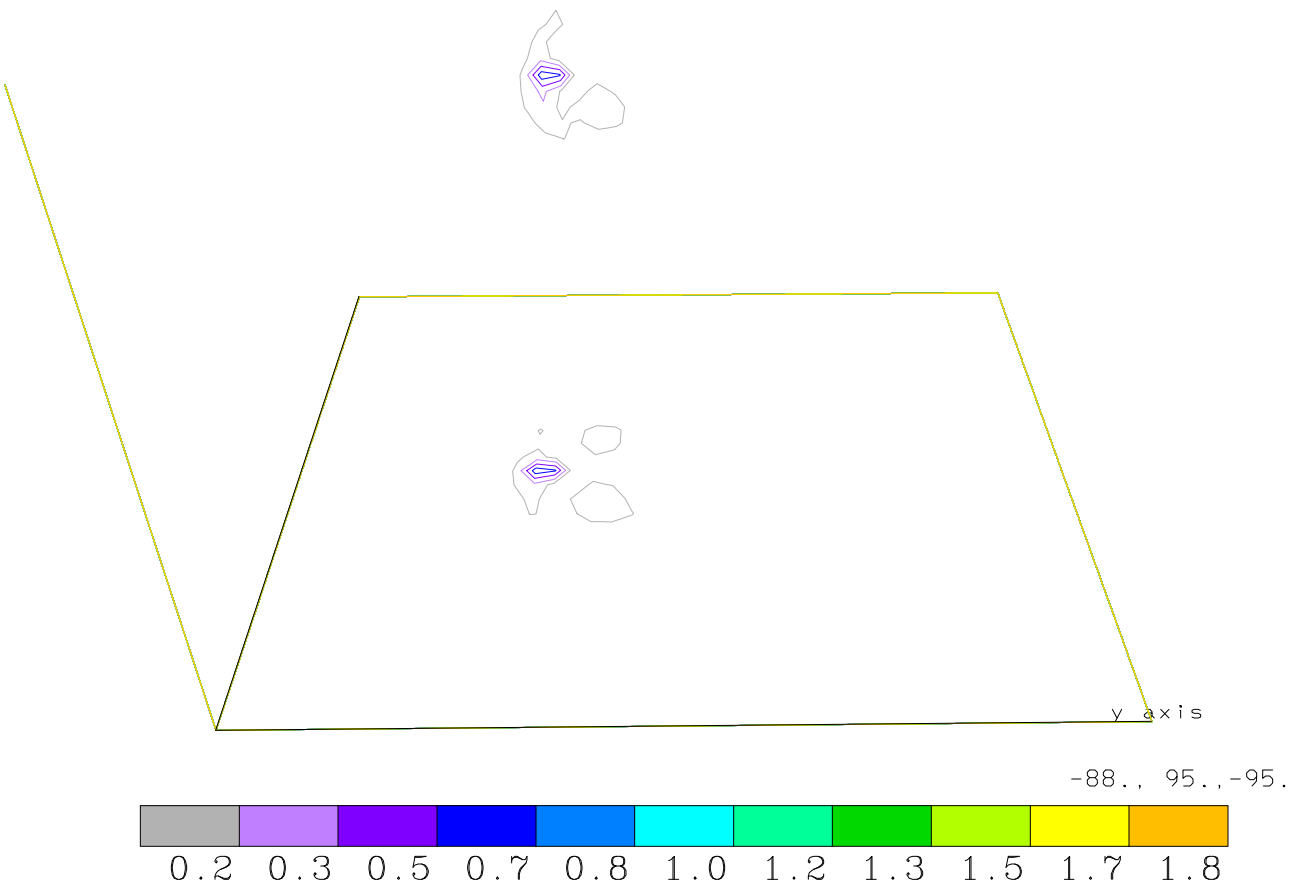
epresq t ut = 1.51

units 2.00E-01 min 0.00E+00 max 1.54E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



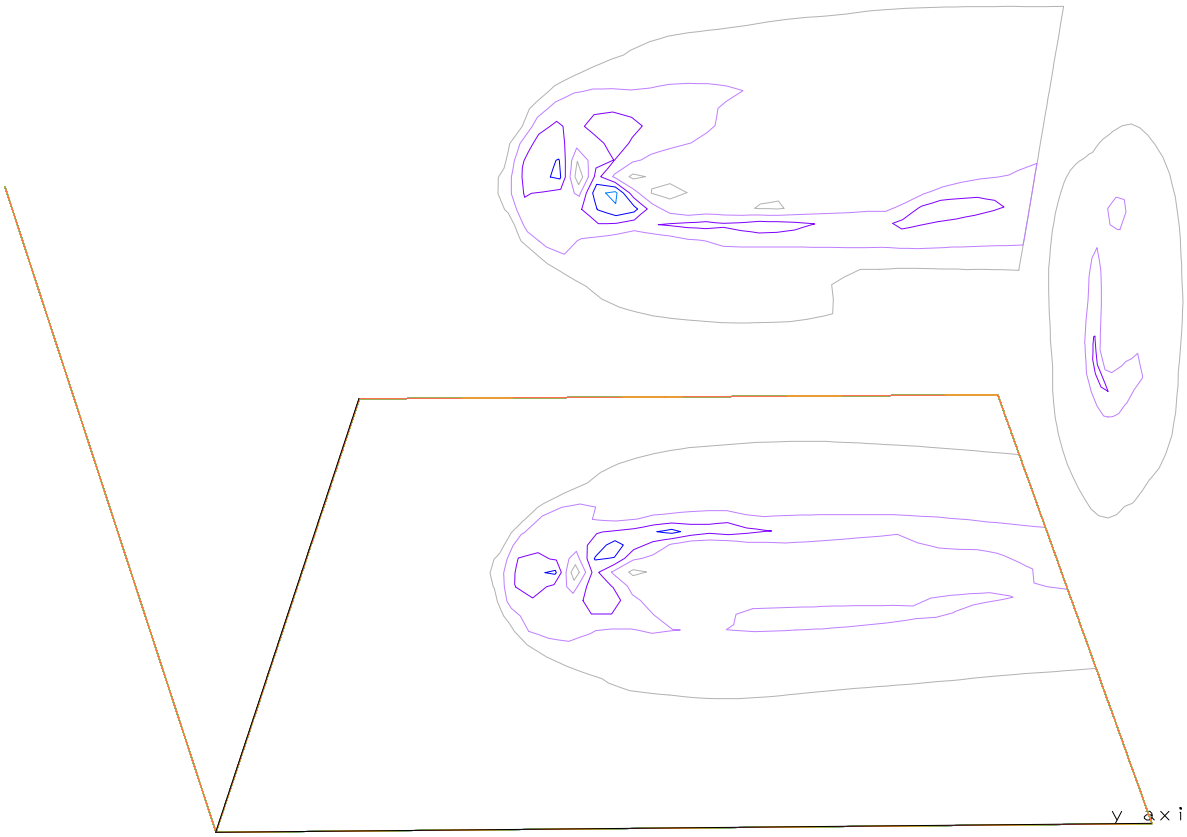
q temph ut = 1.51

units 2.50E-01 min 0.00E+00 max 2.09E-01

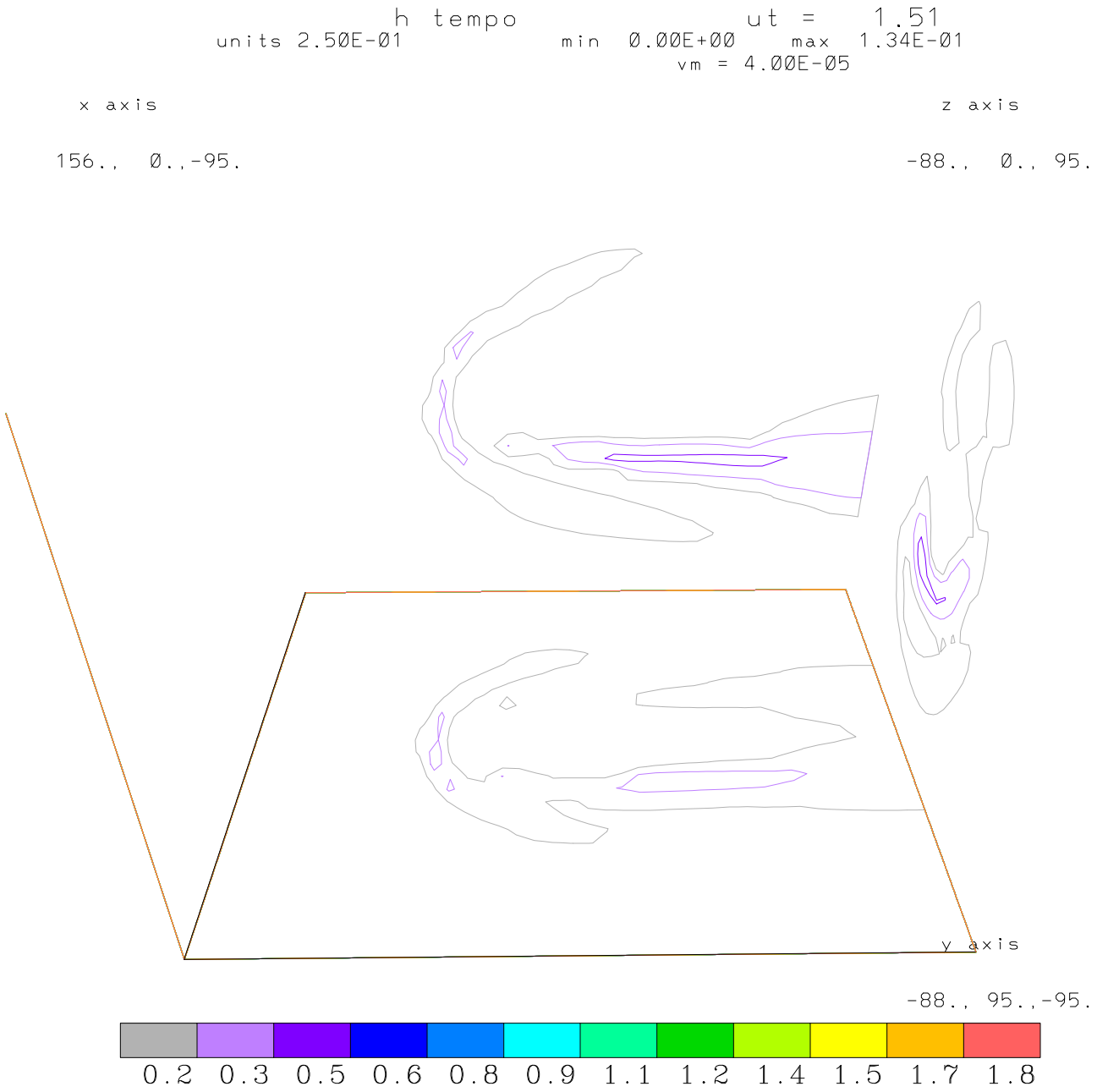
vm = 4.00E-05

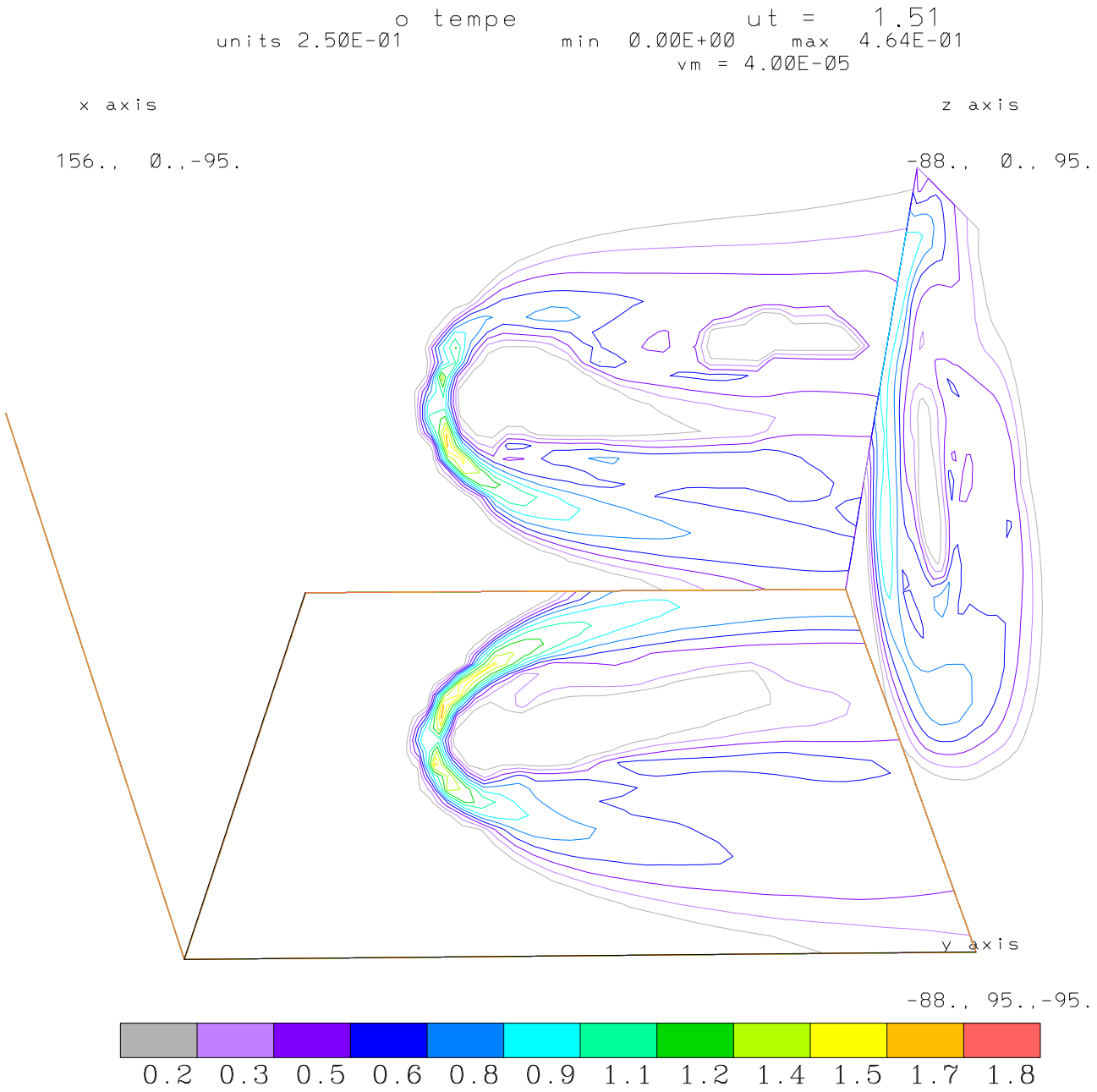
x axis z axis

156., 0.,-95. -88., 0., 95.



-88., 95.,-95.


h tempo
ut = 1.51
units 2.50E-01
min 0.00E+00
max 1.34E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.51
units 2.50E-01
min 0.00E+00
max 4.64E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

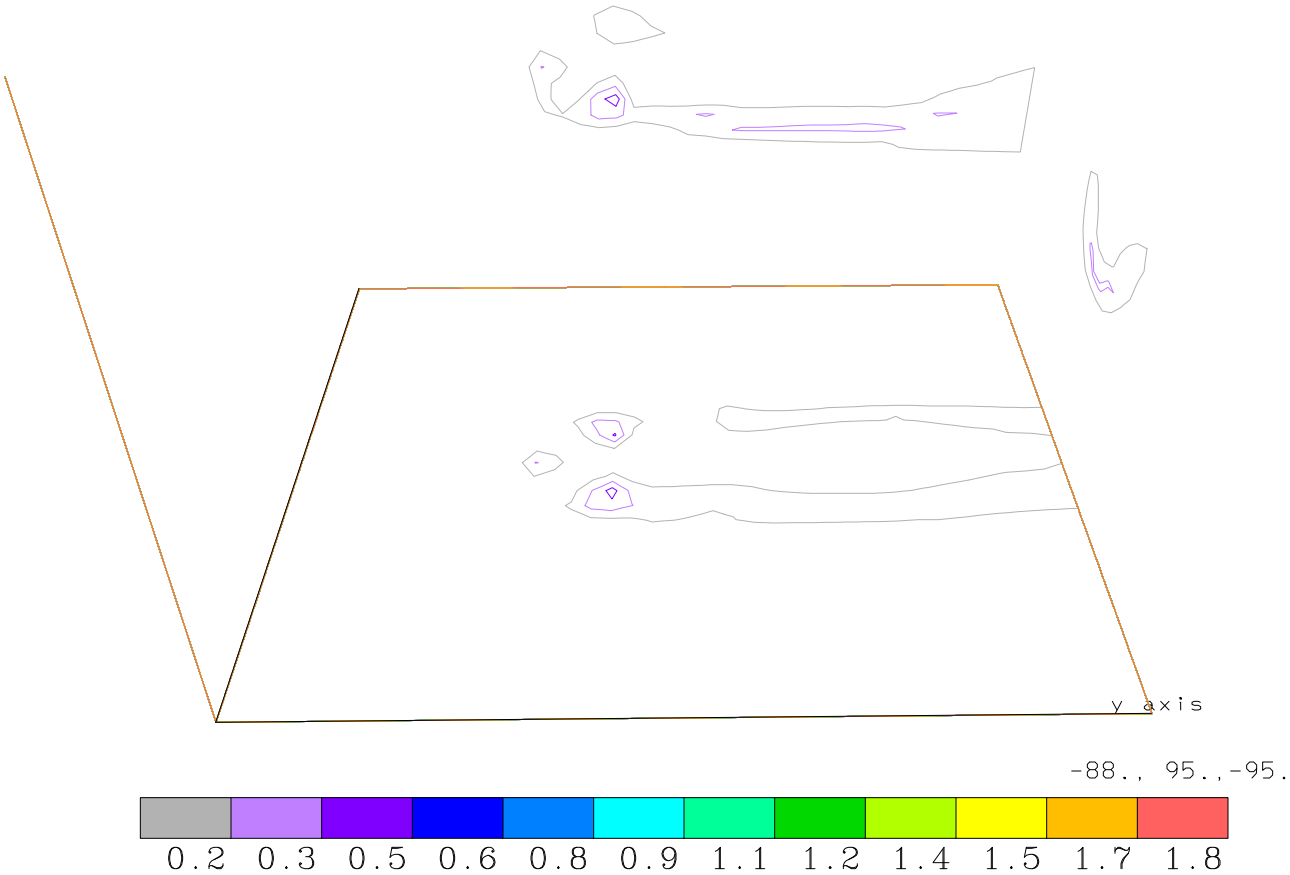
e tempq ut = 1.51

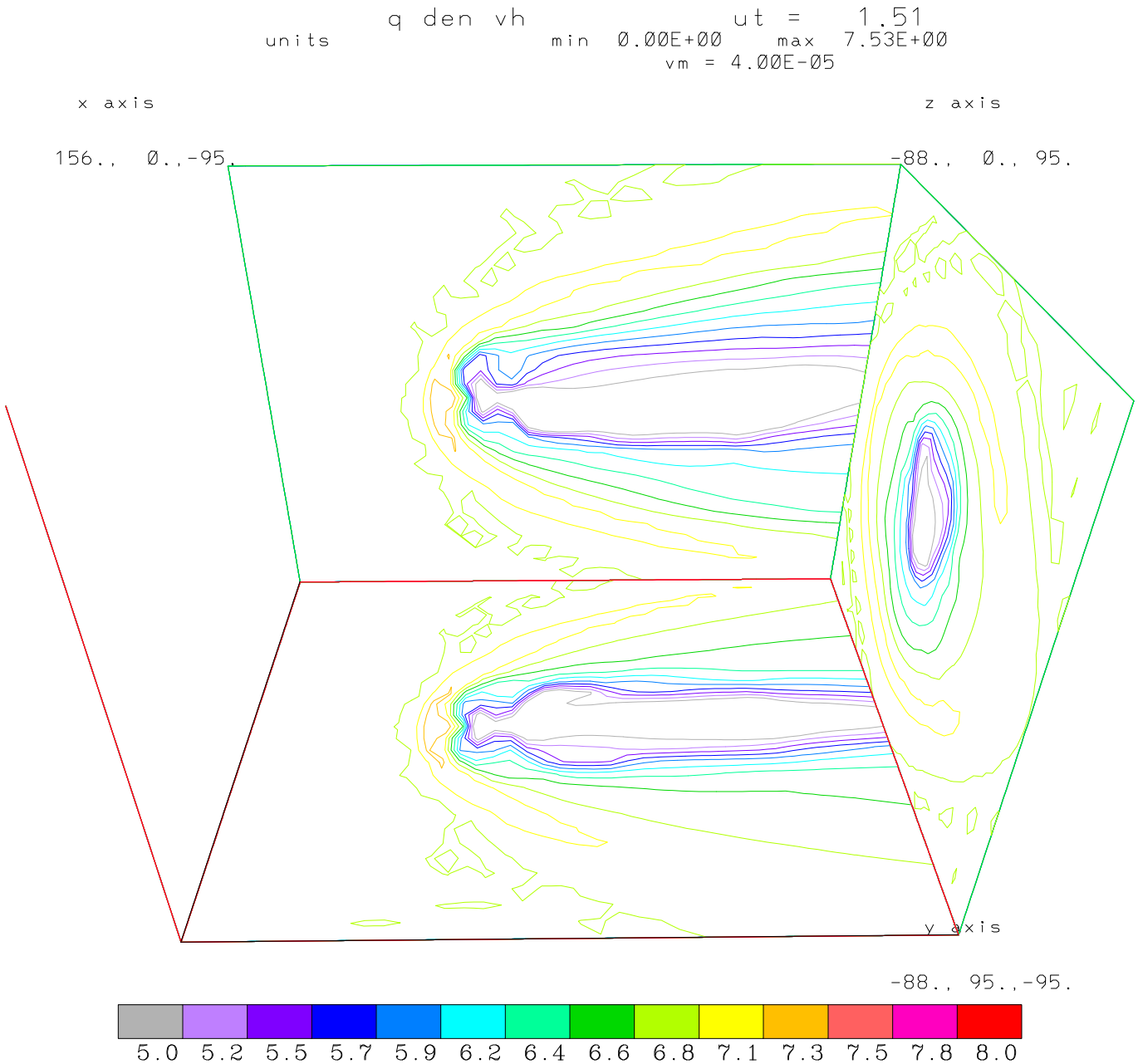
units 1.12E-01 min 0.00E+00 max 6.12E-02

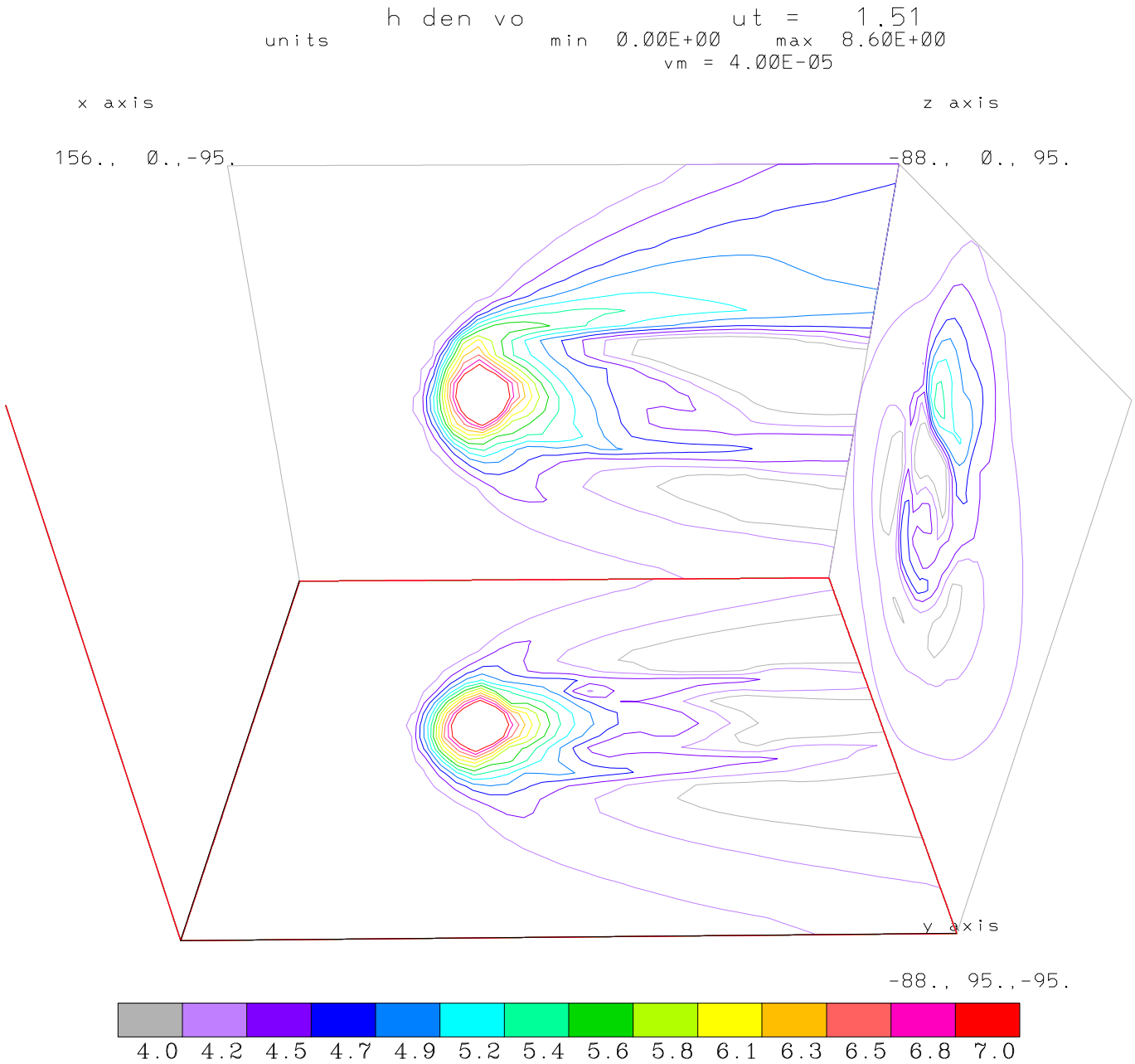
vm = 4.00E-05

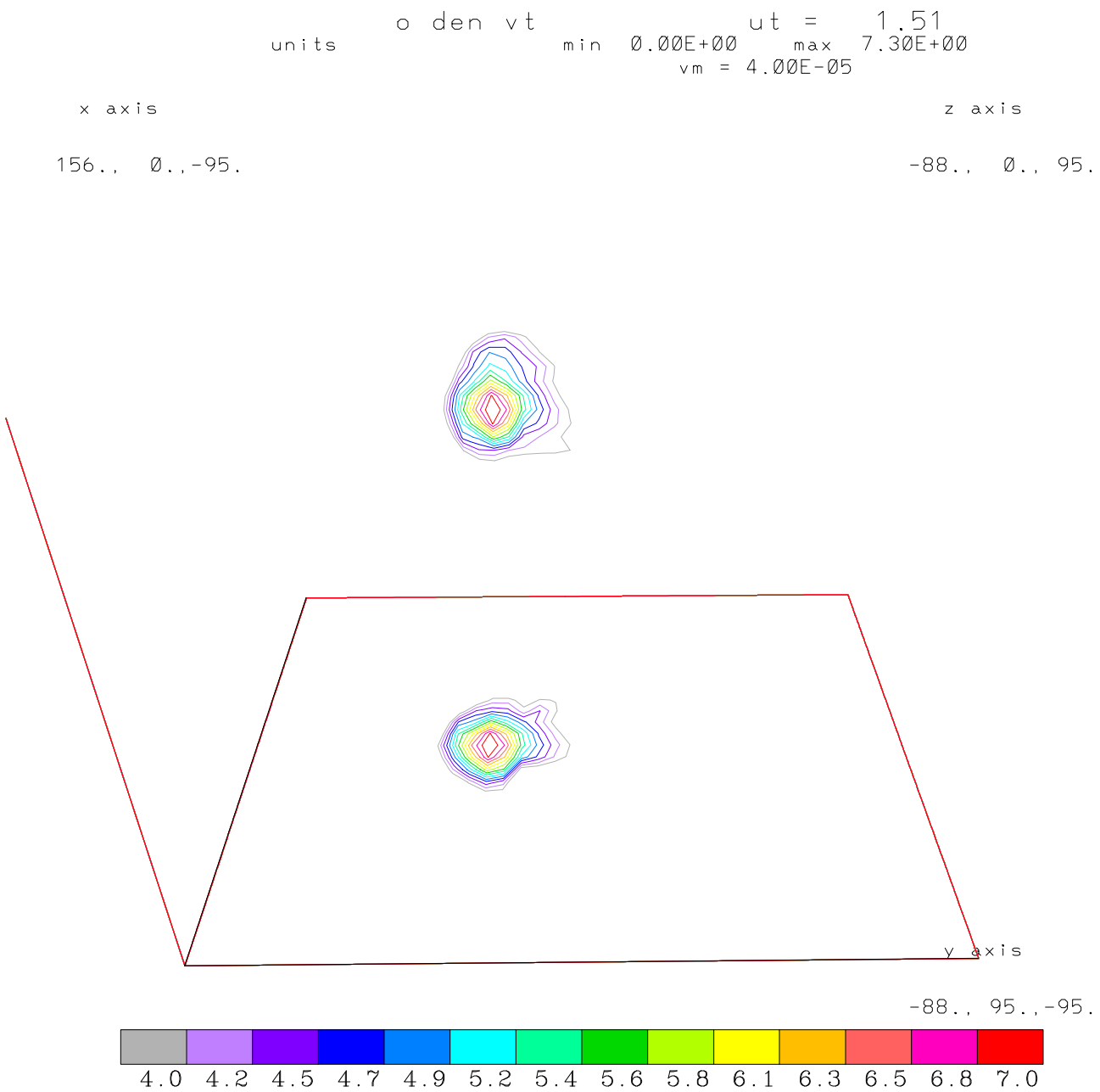
x axis z axis

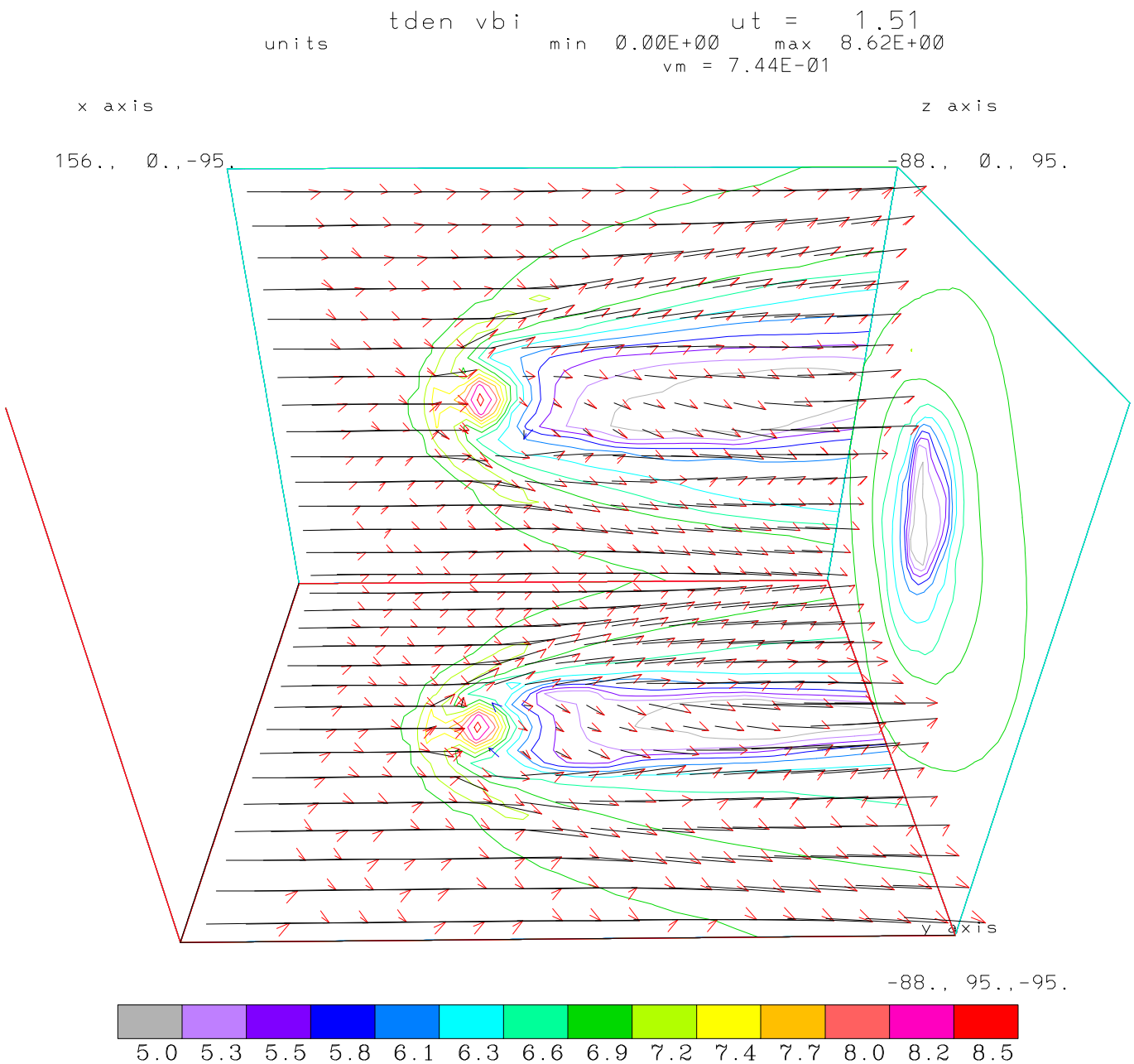
156., 0.,-95. -88., 0., 95.

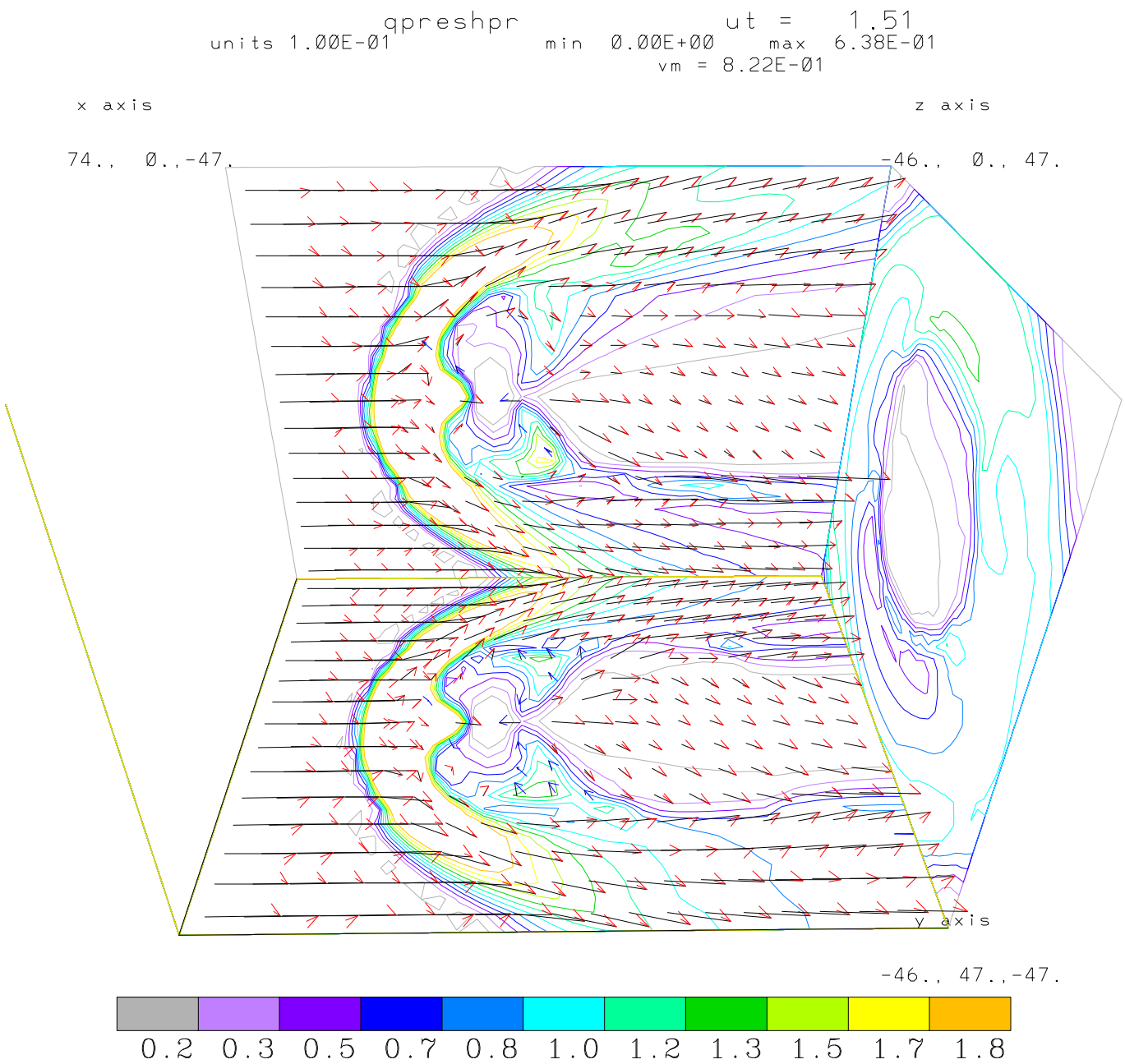


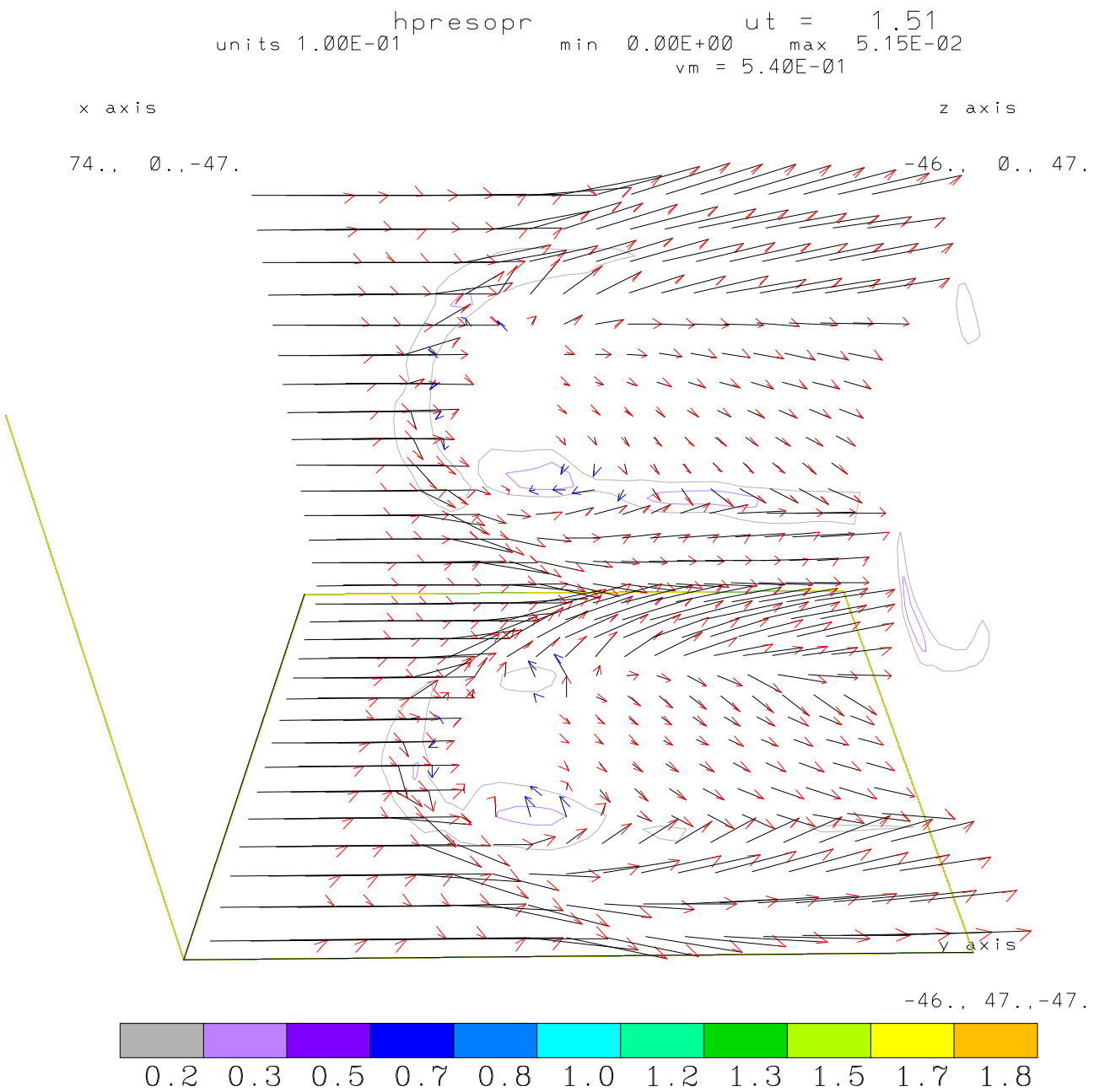

q den vh
ut = 1.51
units
min 0.00E+00
max 7.53E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0

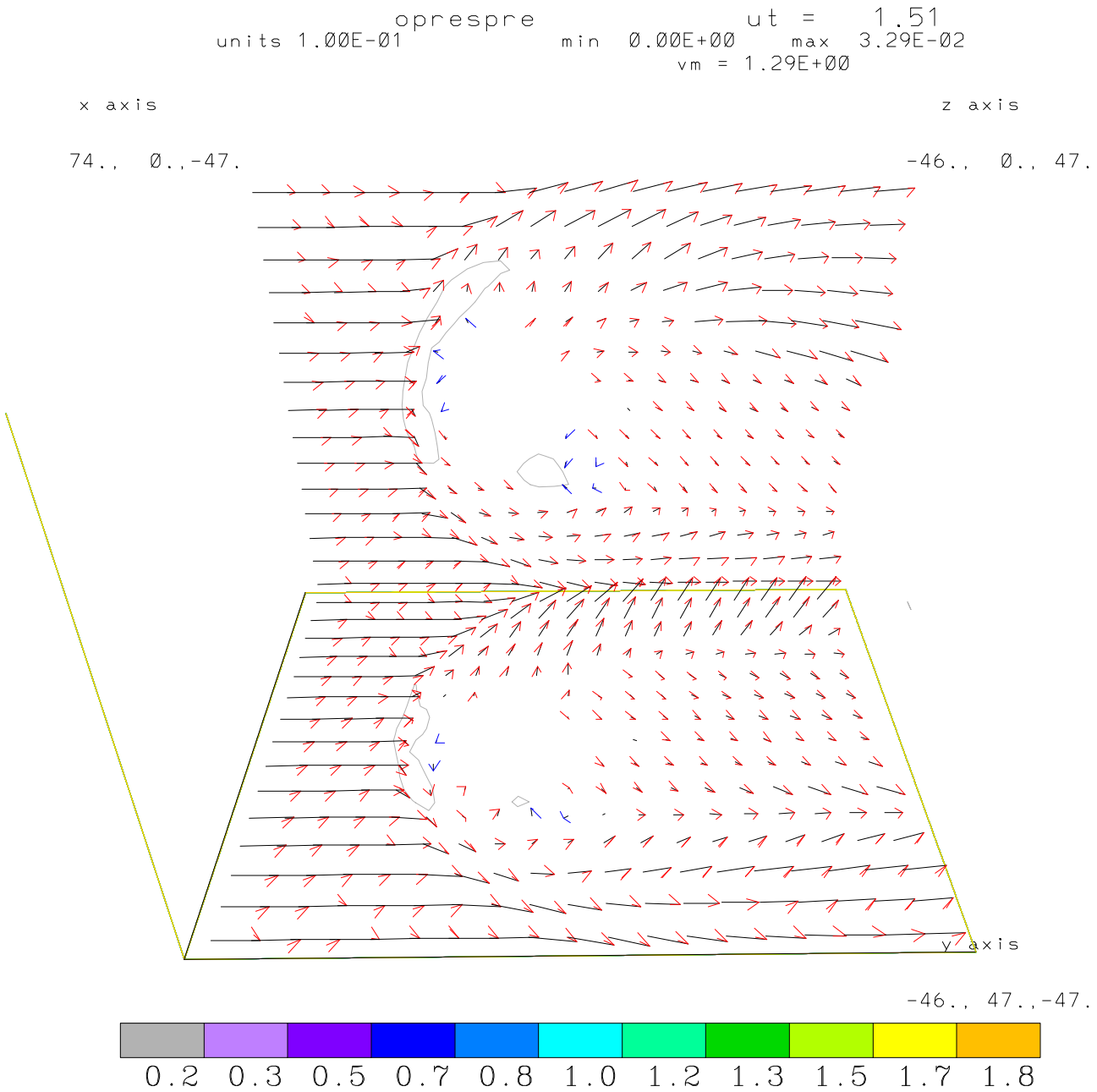

h den vo ut = 1.51
units min 0.00E+00 max 8.60E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

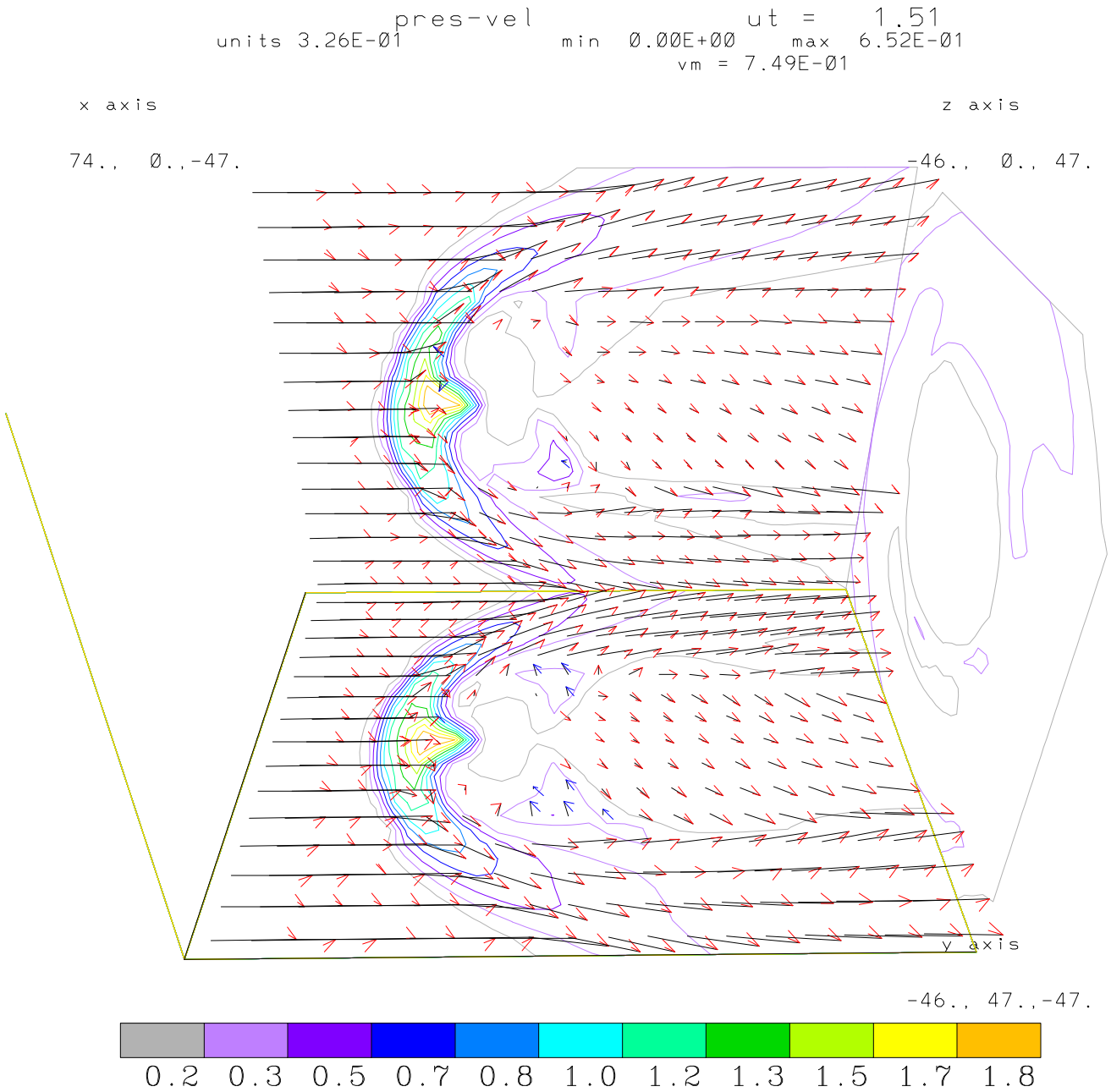

o den vt
ut = 1.51
units
min 0.00E+00
max 7.30E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.51
units
min 0.00E+00
max 8.62E+00
vm = 7.44E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.51
units 1.00E-01
min 0.00E+00
max 6.38E-01
vm = 8.22E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.51
units 1.00E-01
min 0.00E+00
max 5.15E-02
vm = 5.40E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.51
units 1.00E-01
min 0.00E+00
max 3.29E-02
vm = 1.29E+00
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.51
units 3.26E-01
min 0.00E+00
max 6.52E-01
vm = 7.49E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

box 2 : dawn dusk ut = 1.51

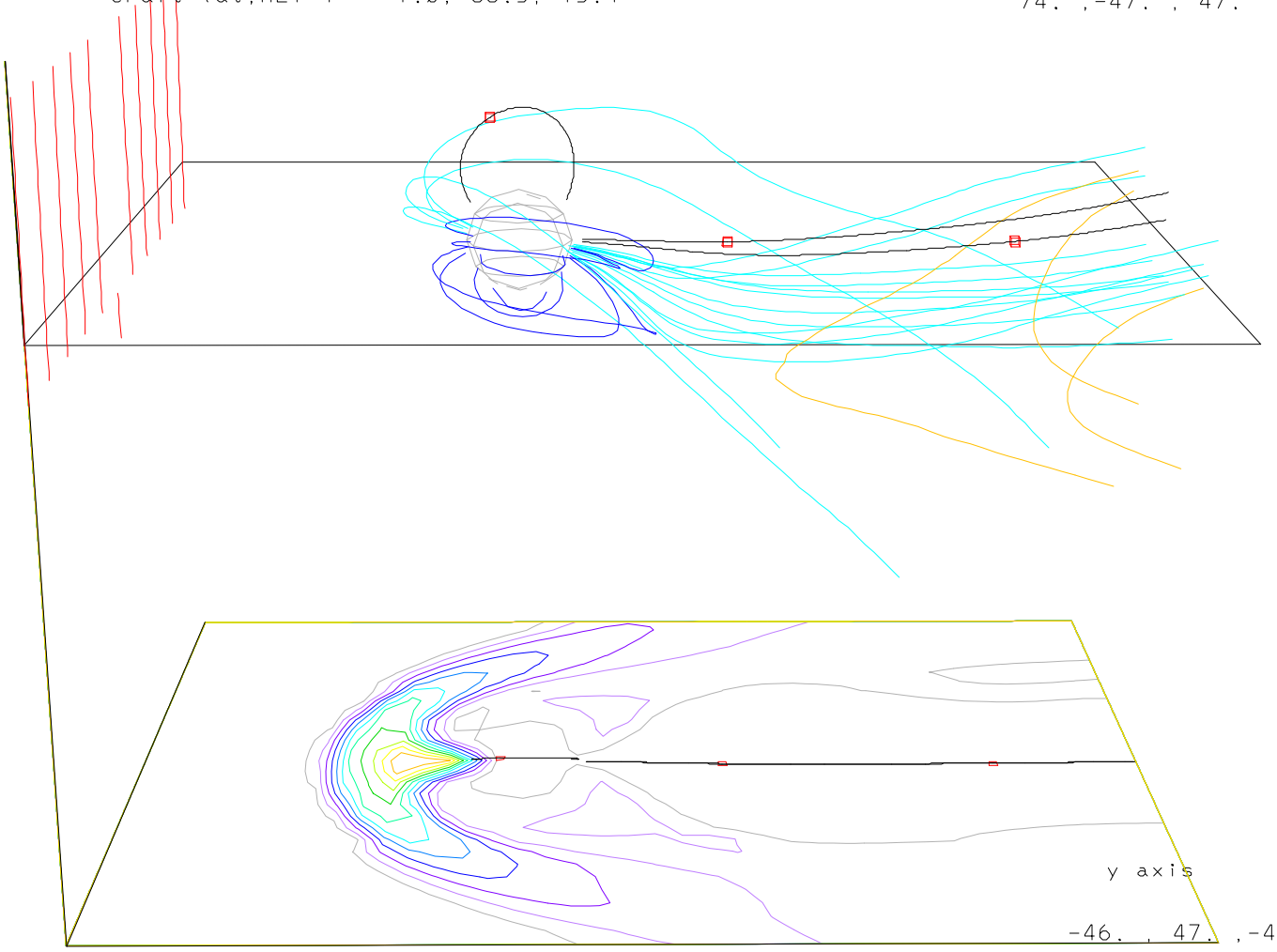
units 3.27E-01 min 1.62E-03 max 6.52E-01

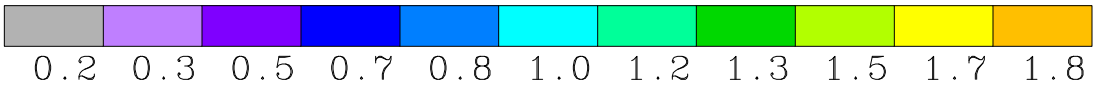
vm = 4.00E-05

craft lat,MLT 2 1.0,-66.8, 0.2
craft lat,MLT 2 1.0, 68.0, 0.2
craft lat,MLT 3 1.0,-88.7, 19.1
craft lat,MLT 4 1.0,-88.5, 15.4

z axis

74. ,-47. , 47.





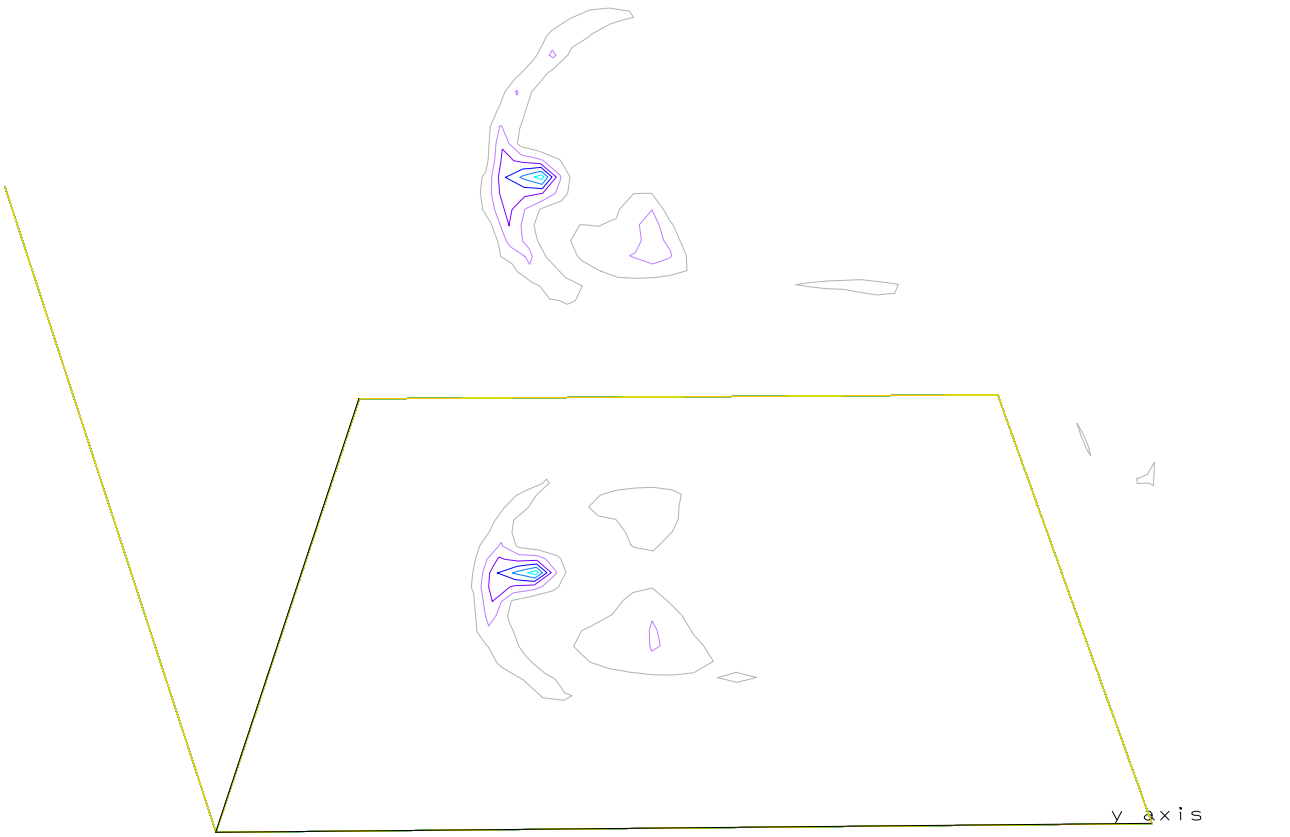
epresq t ut = 1.51

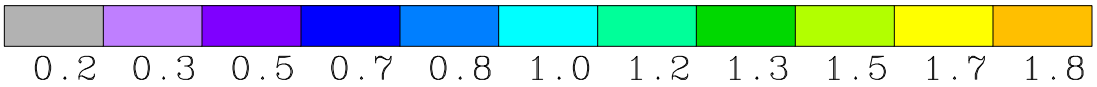
units 2.00E-01 min 0.00E+00 max 2.19E-01

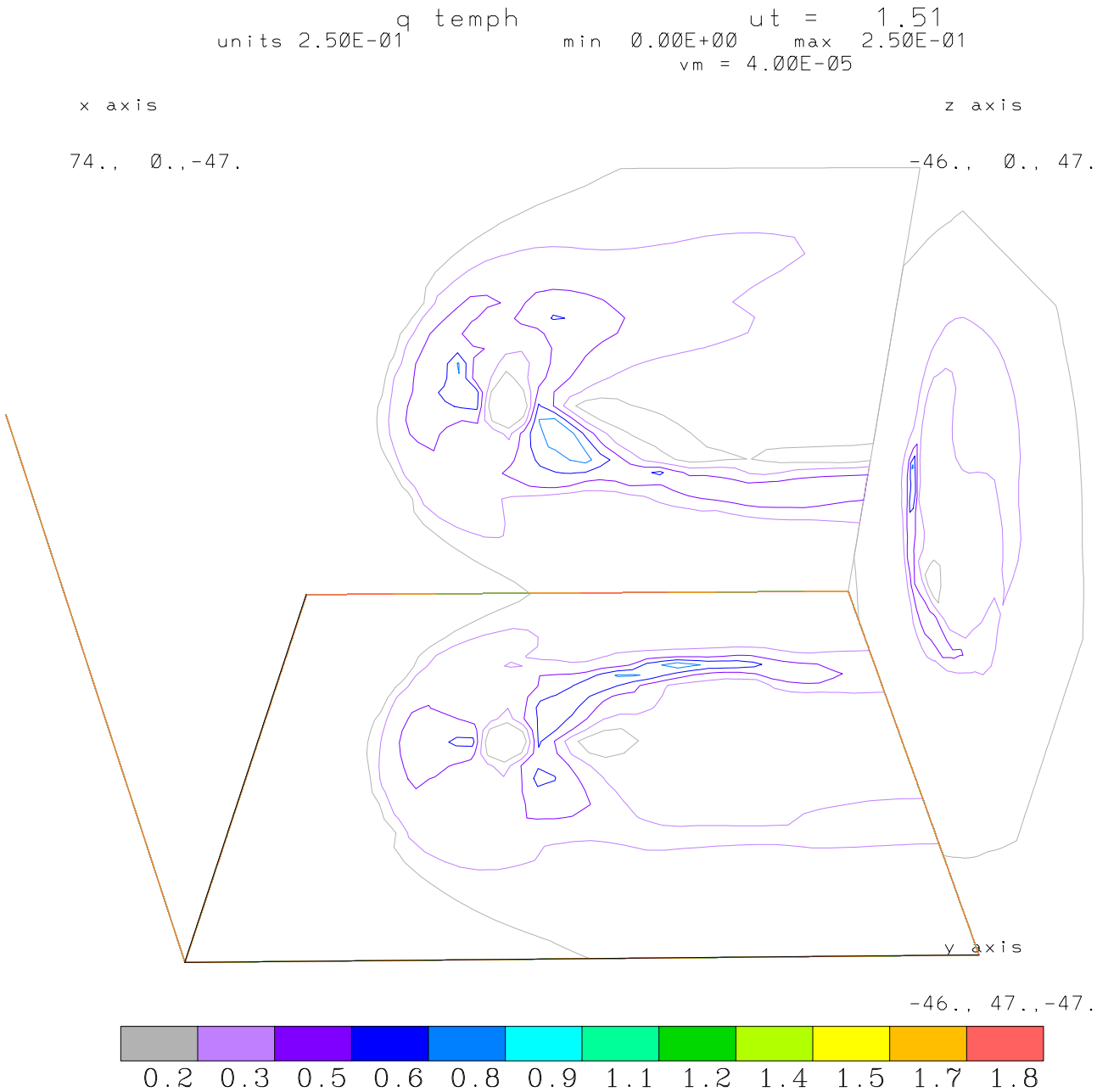
vm = 4.00E-05

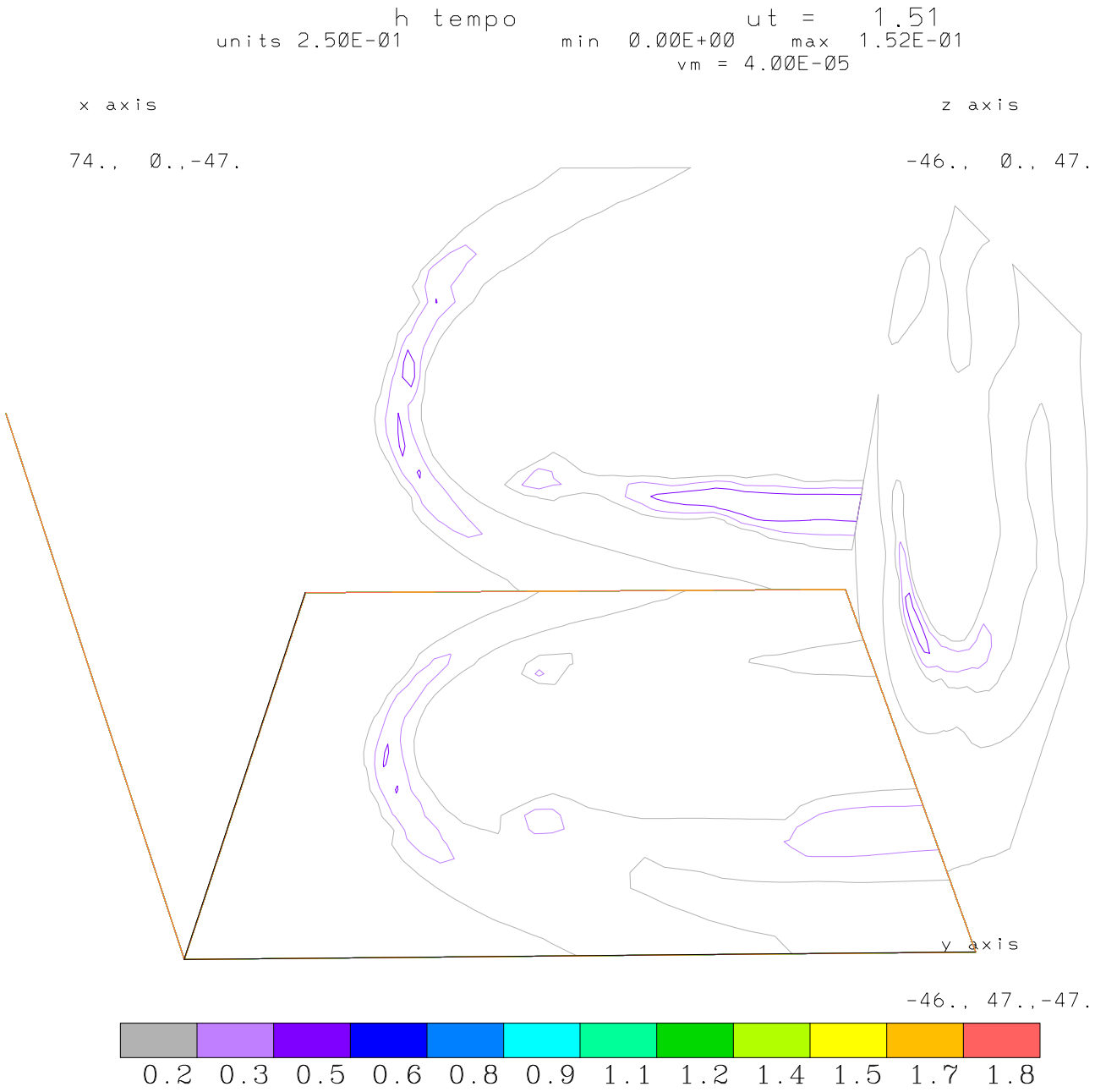
x axis z axis

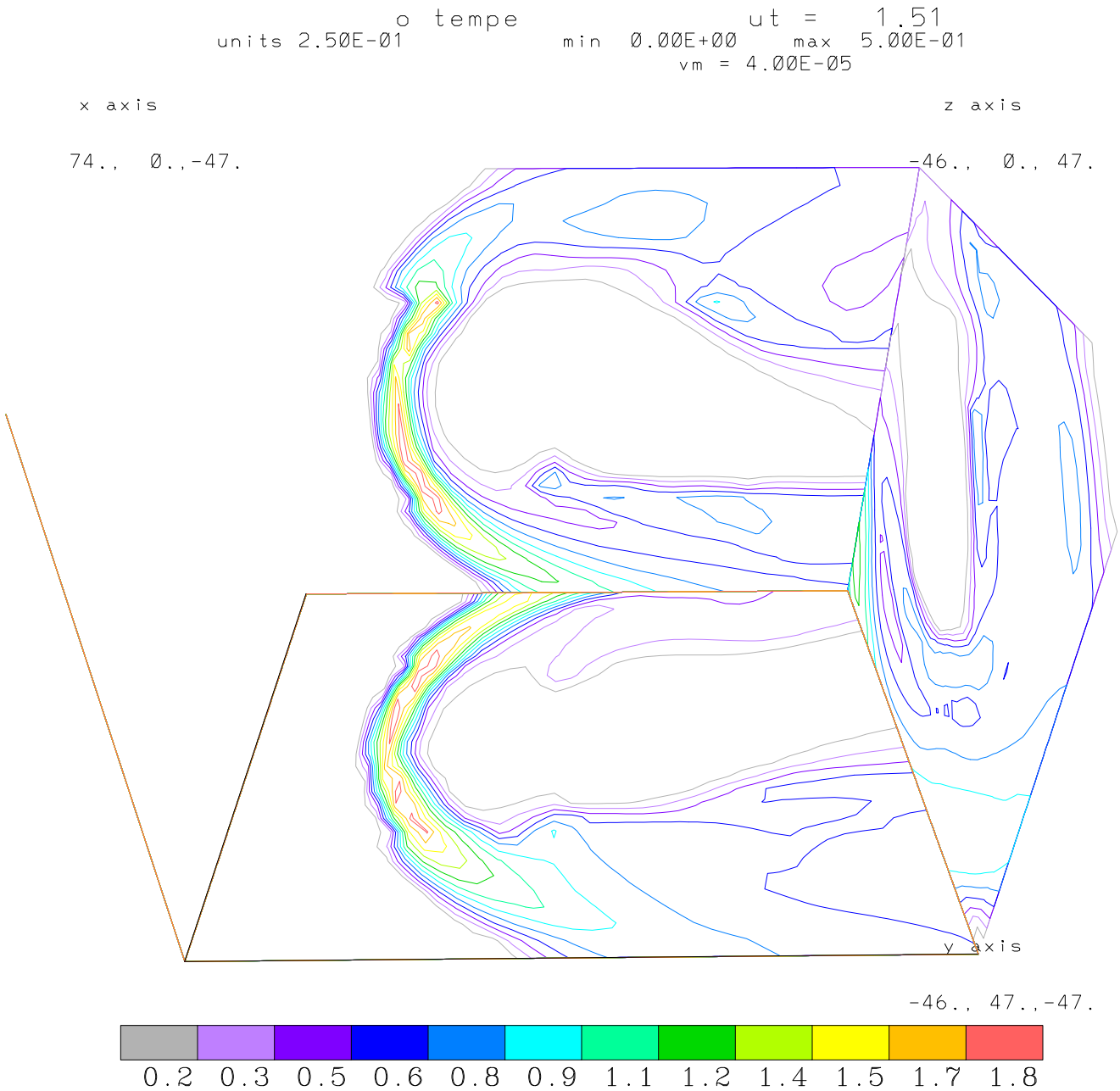
74., 0.,-47. -46., 0., 47.






q temph
ut = 1.51
units 2.50E-01
min 0.00E+00
max 2.50E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


h tempo
ut = 1.51
units 2.50E-01
min 0.00E+00
max 1.52E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.51
units 2.50E-01
min 0.00E+00
max 5.00E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

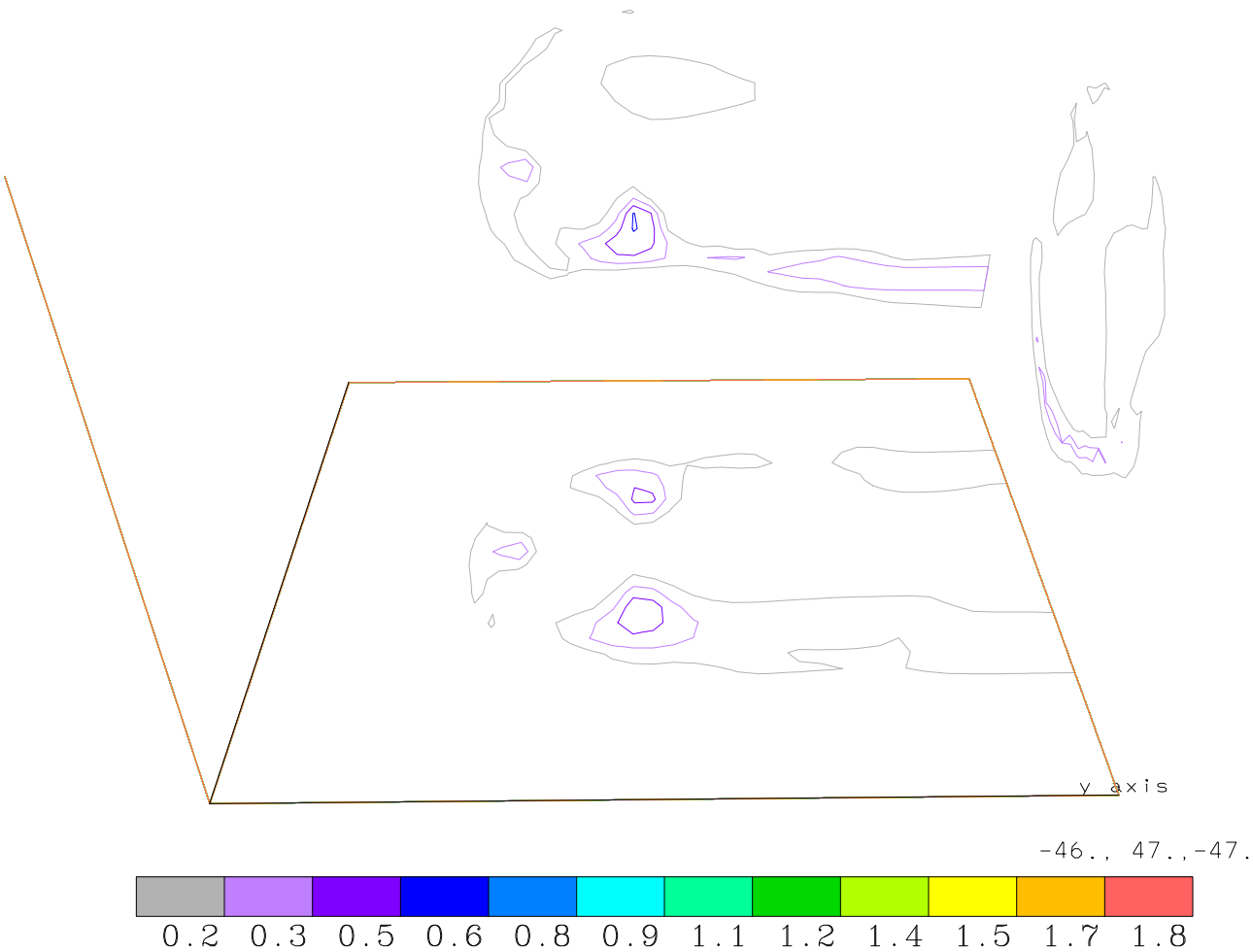
e tempq ut = 1.51

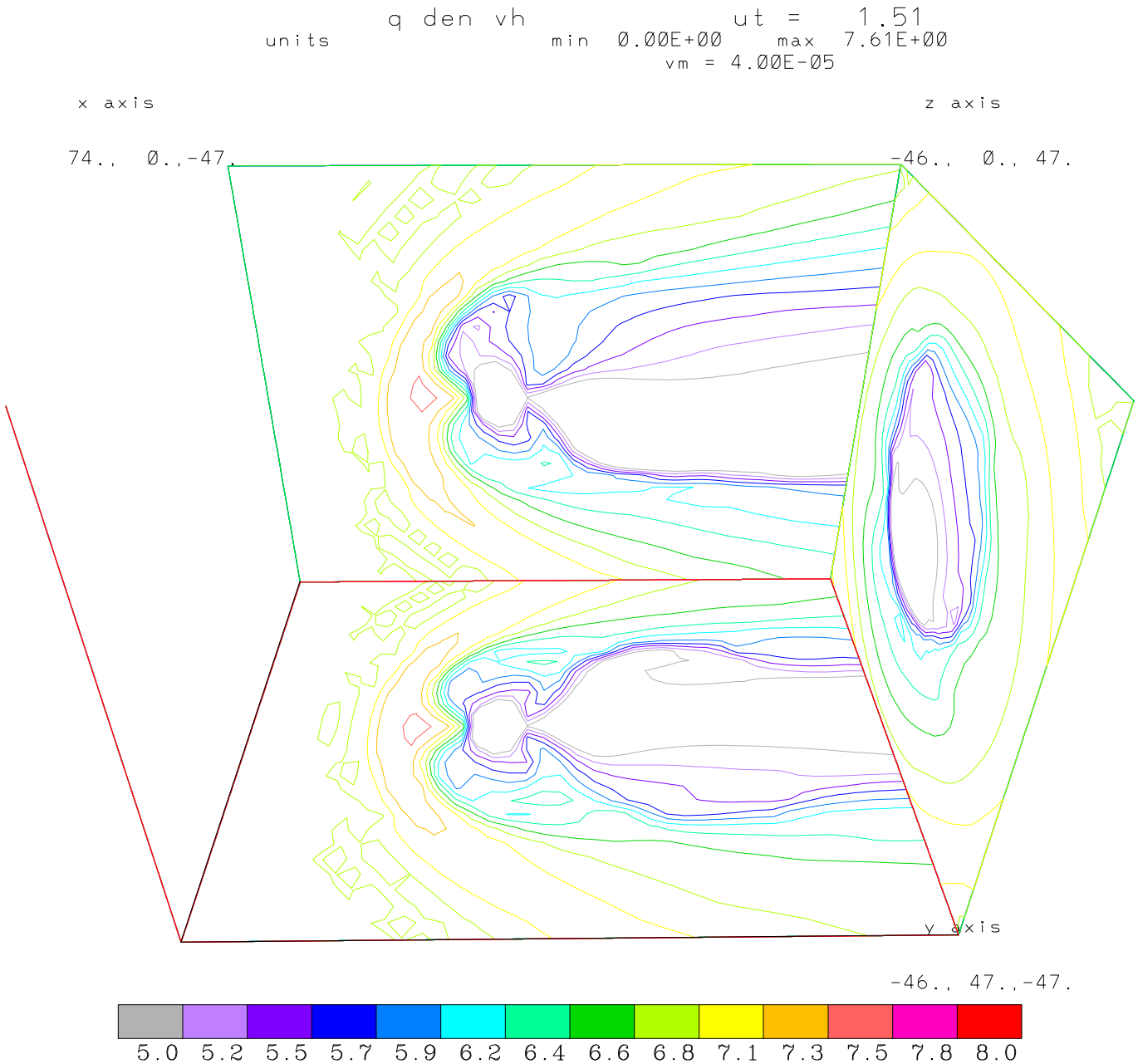
units 1.12E-01 min 0.00E+00 max 7.50E-02

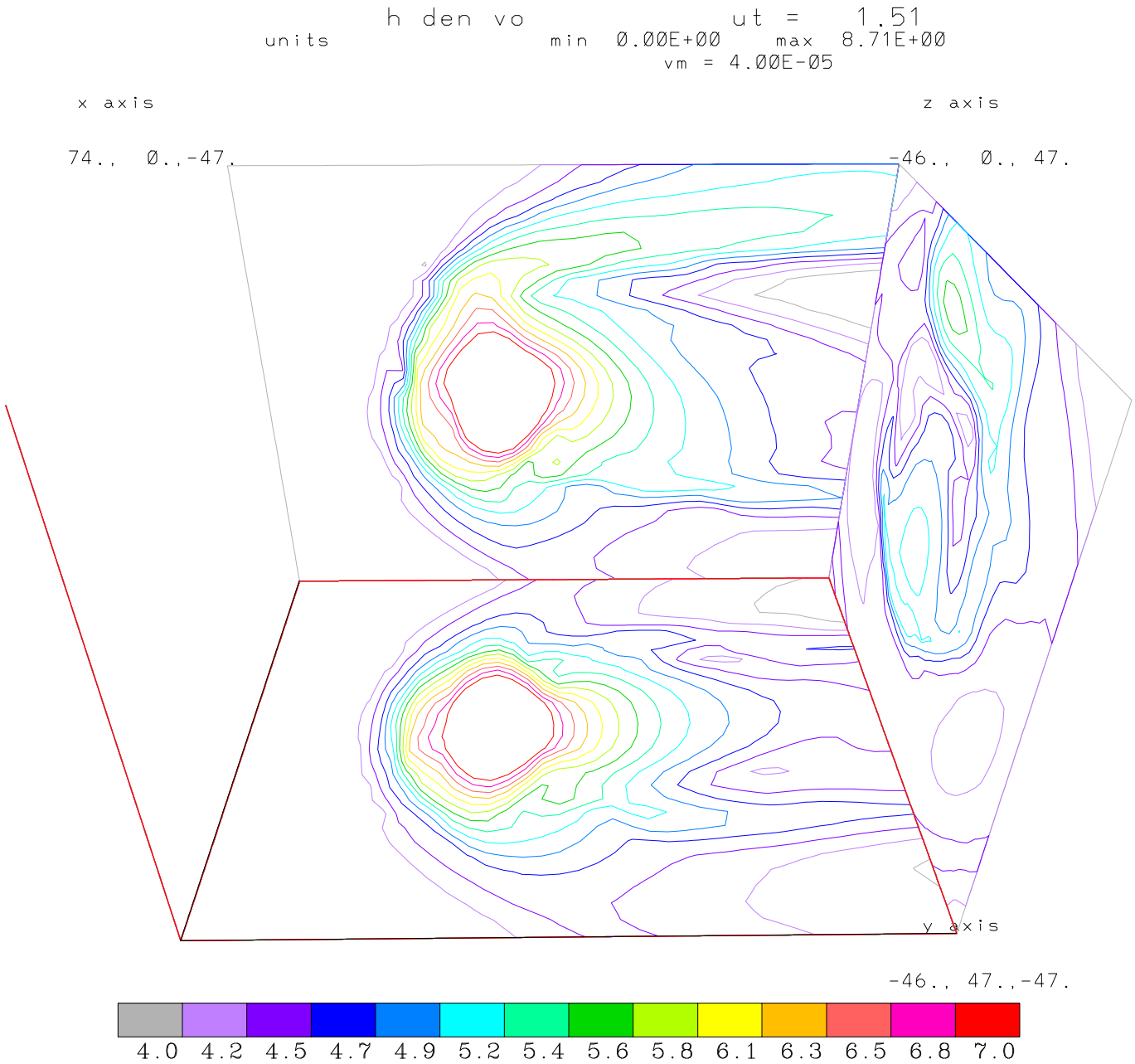
vm = 4.00E-05

x axis z axis

74., 0.,-47. -46., 0., 47.




q den vh
ut = 1.51
units
min 0.00E+00
max 7.61E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0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74., 0.,-47.
-46., 0., 47.
y axis
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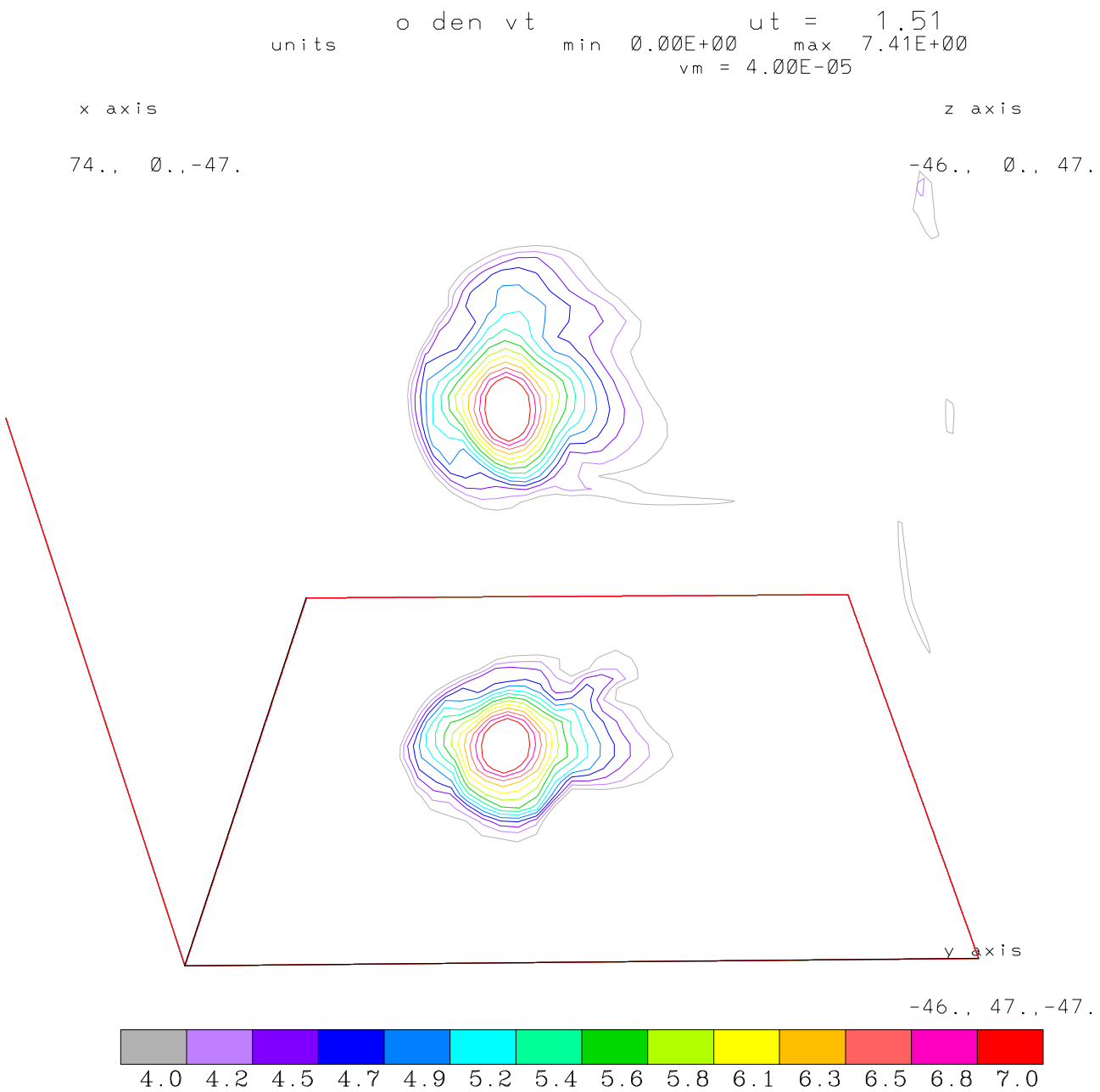
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0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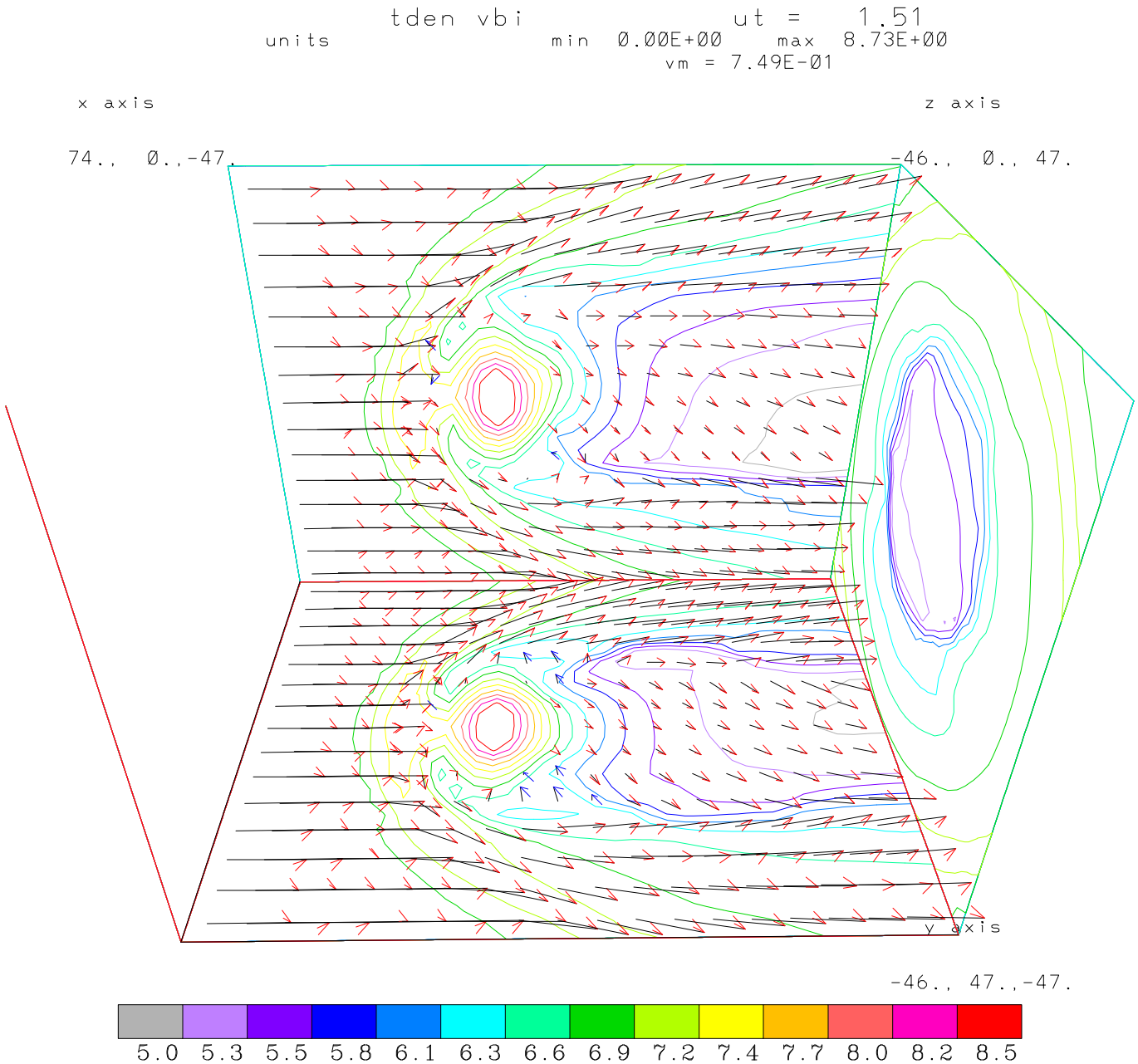
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0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-46., 0., 47.
y axis
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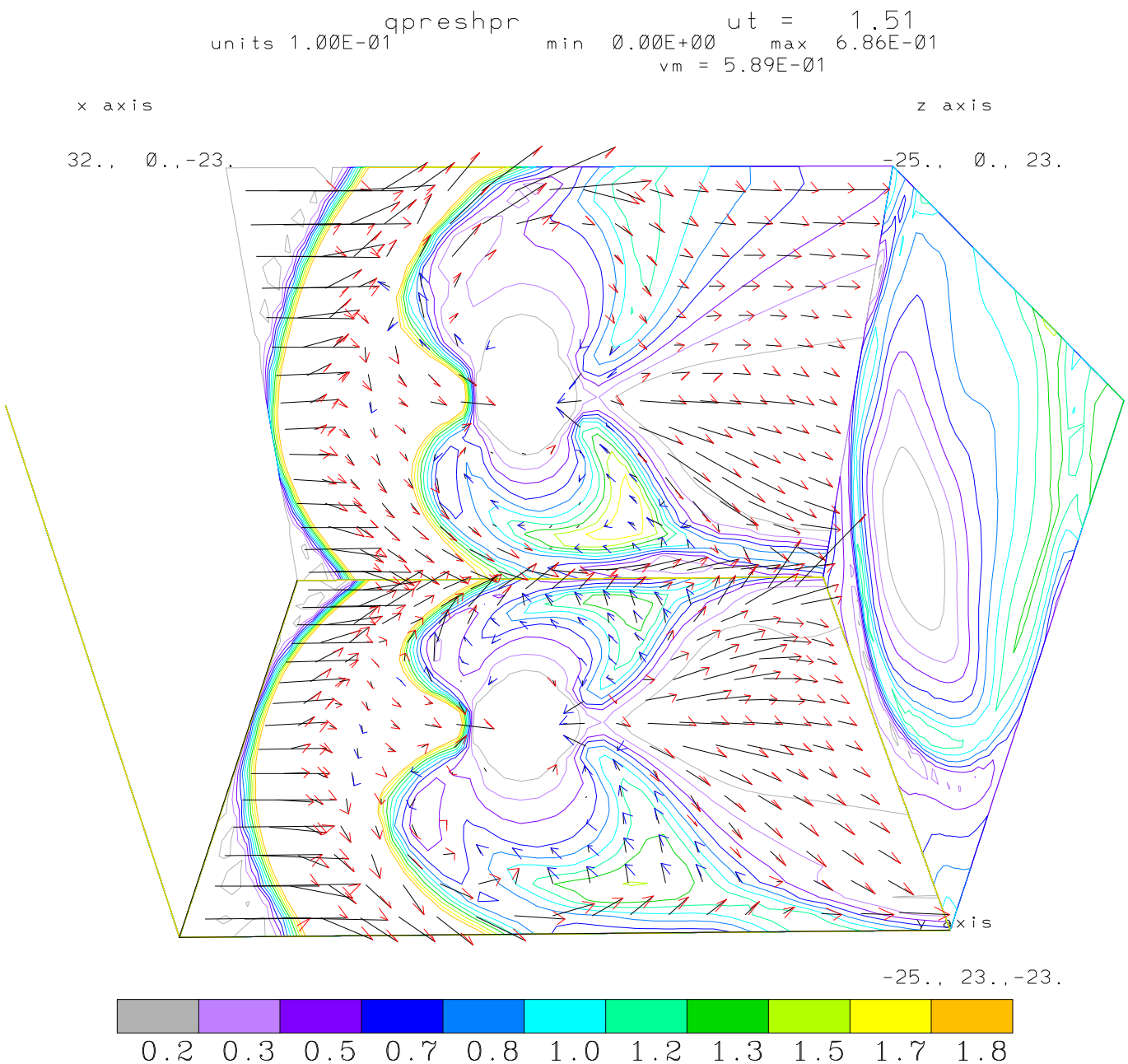
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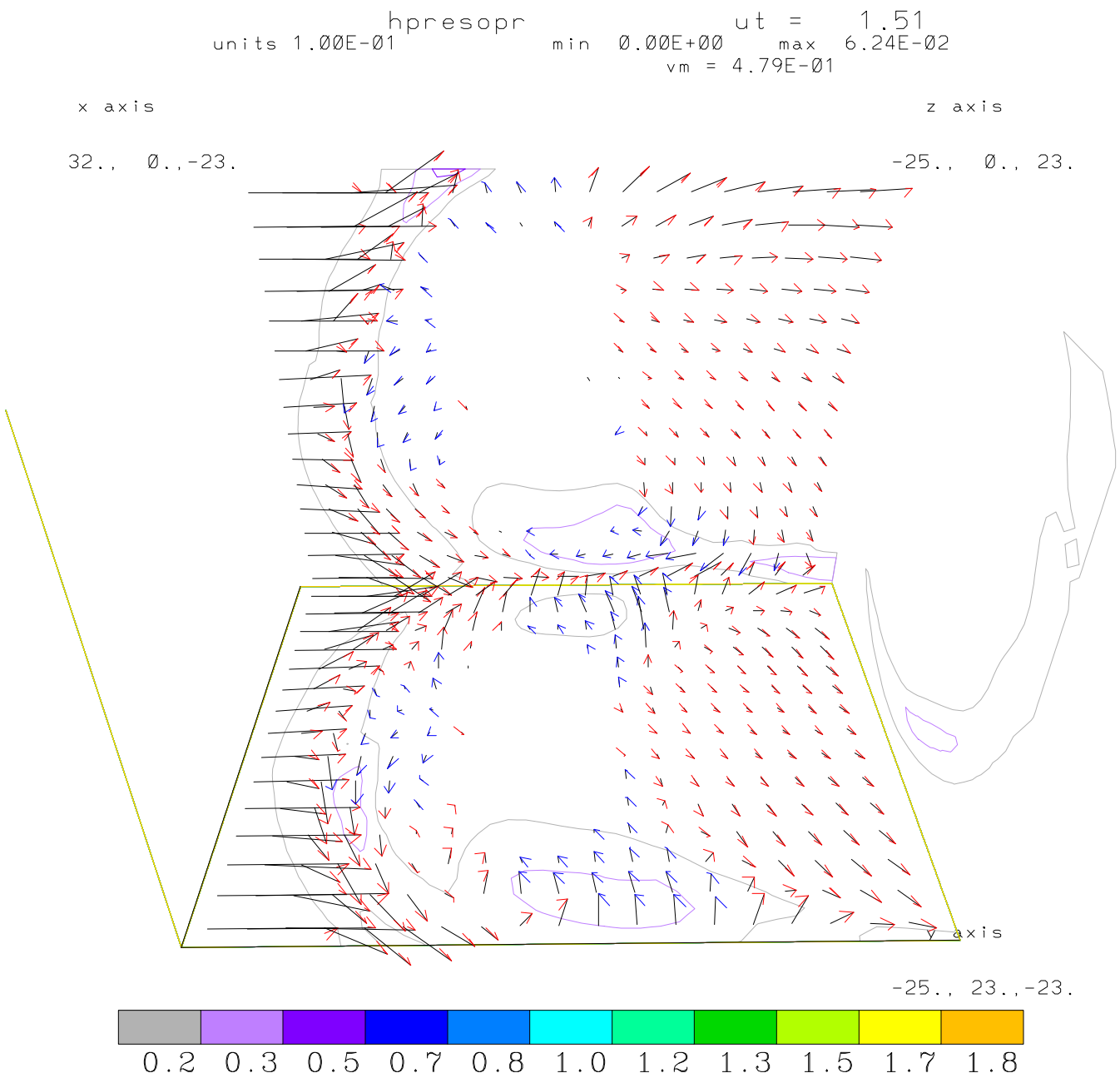
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y axis
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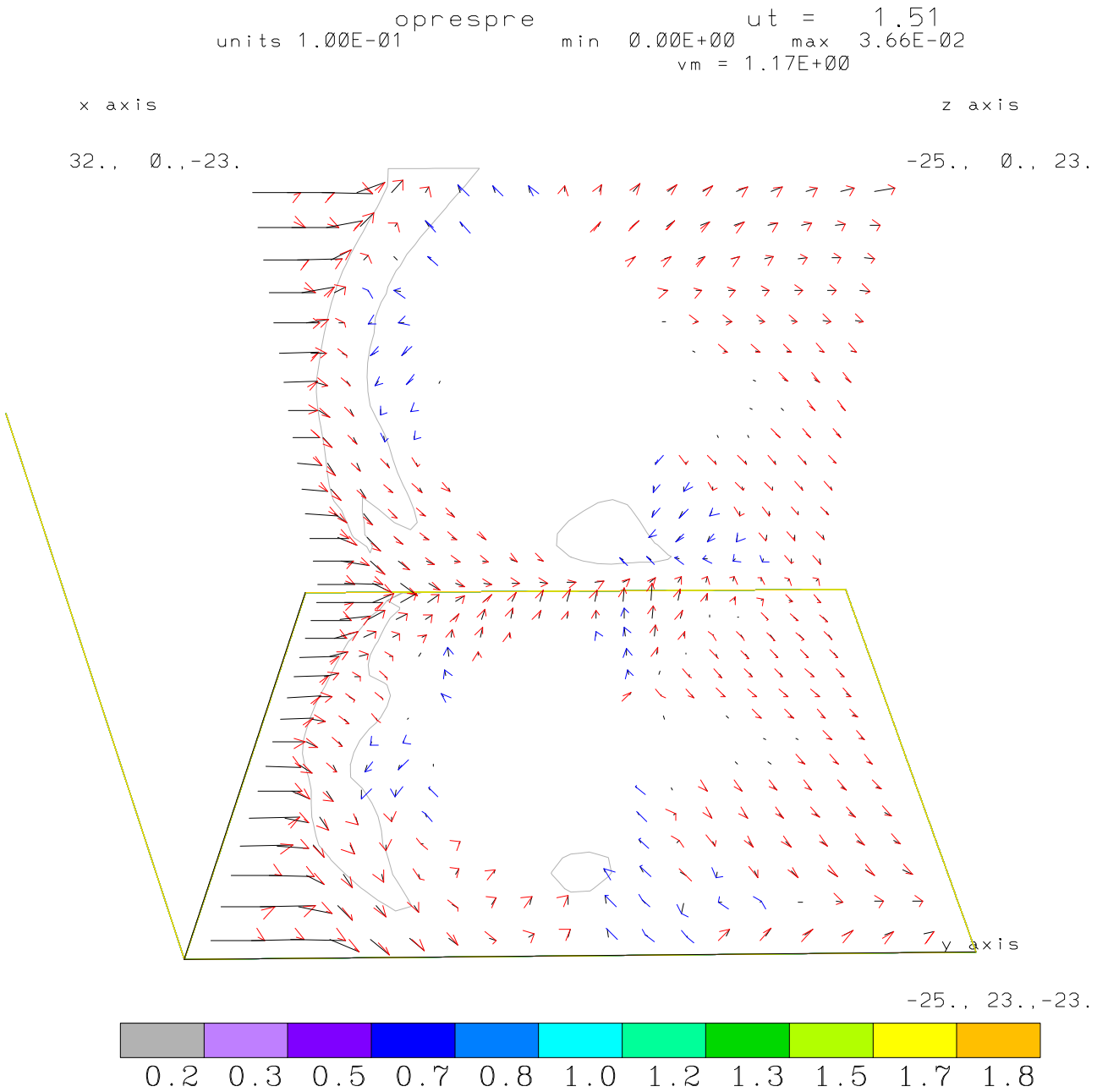
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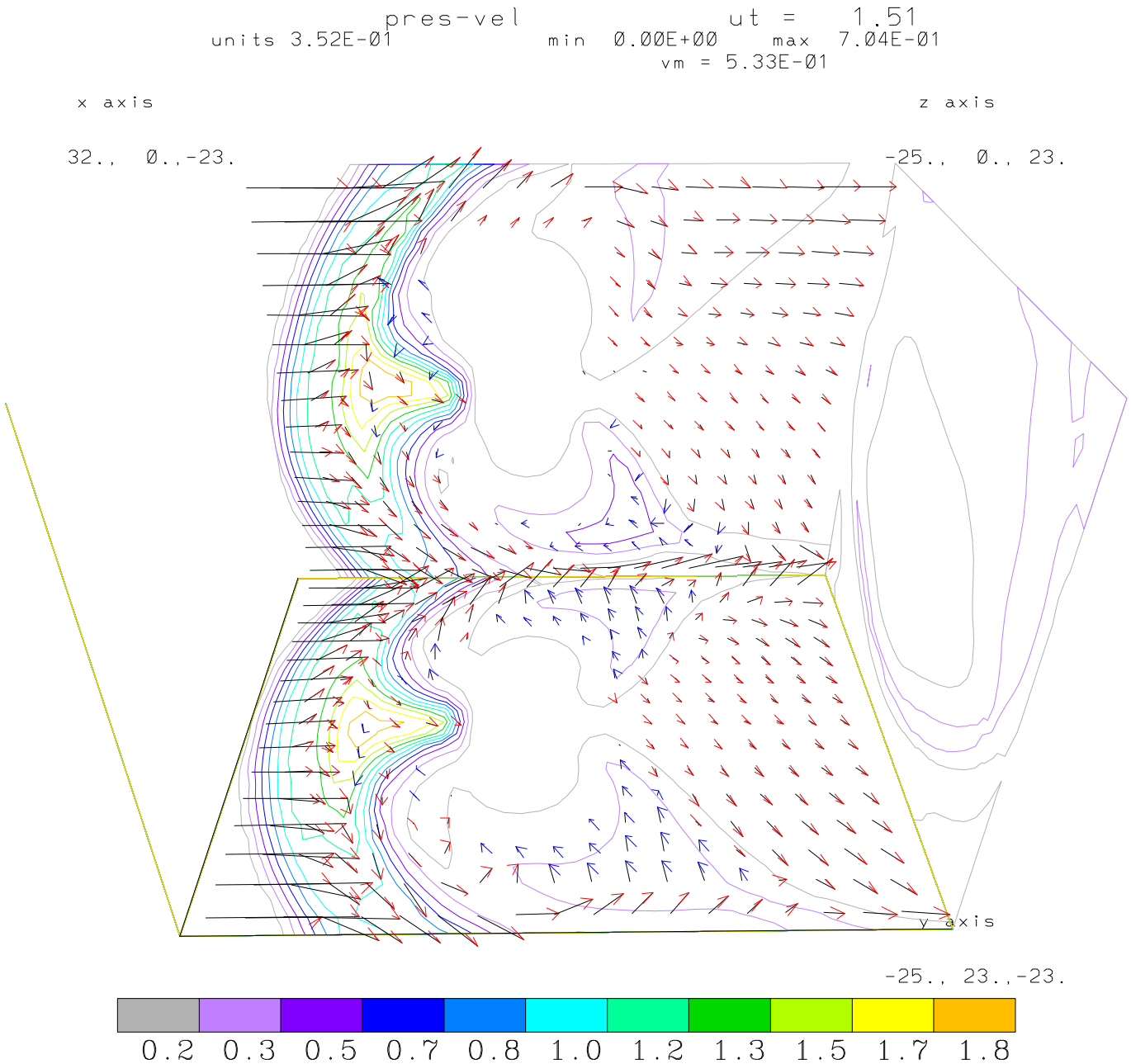
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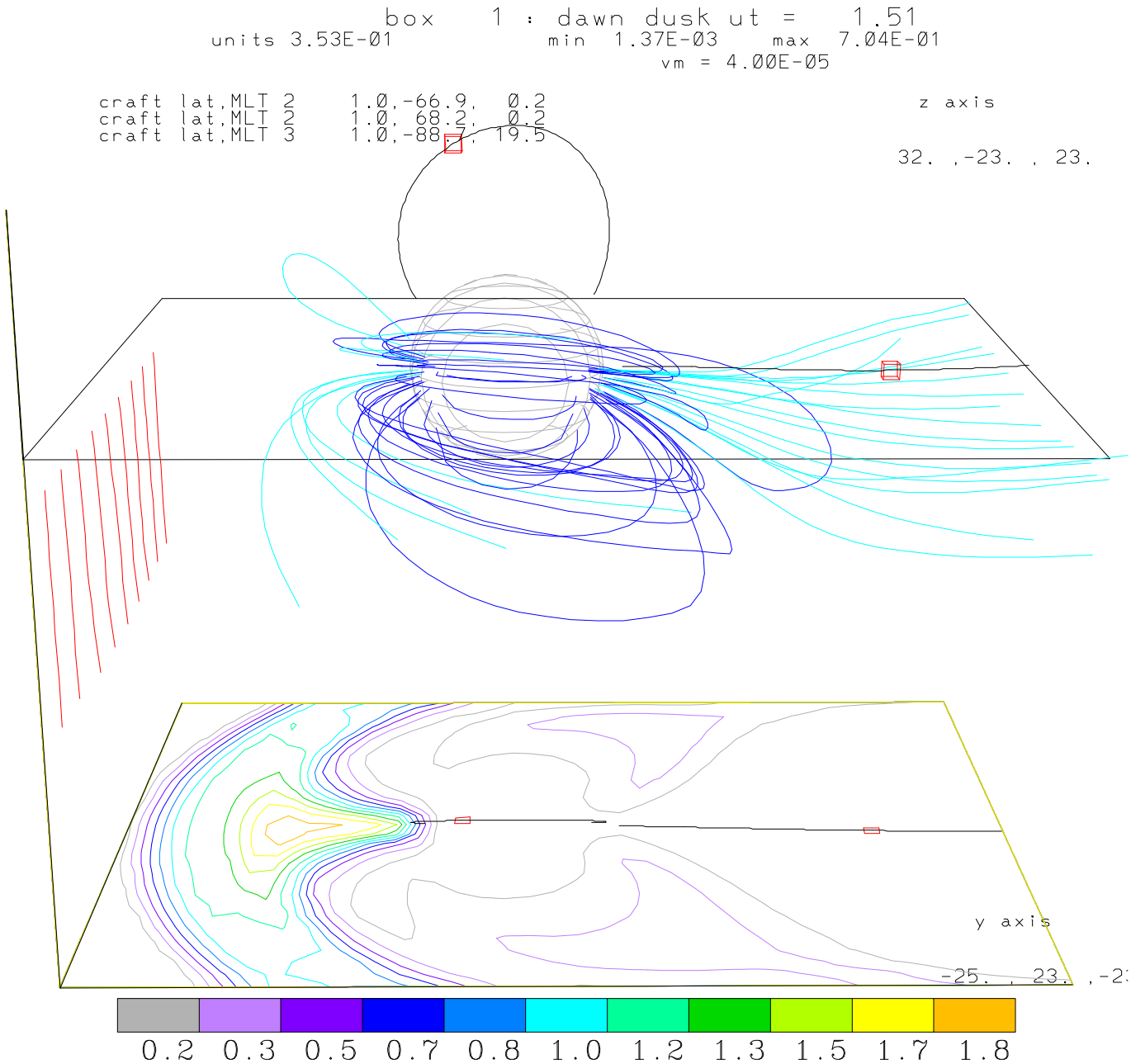
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max 7.04E-01
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craft lat,MLT 2 1.0,-66.9, 0.2
craft lat,MLT 2 1.0, 68.2, 0.2
craft lat,MLT 3 1.0,-88.7, 19.5
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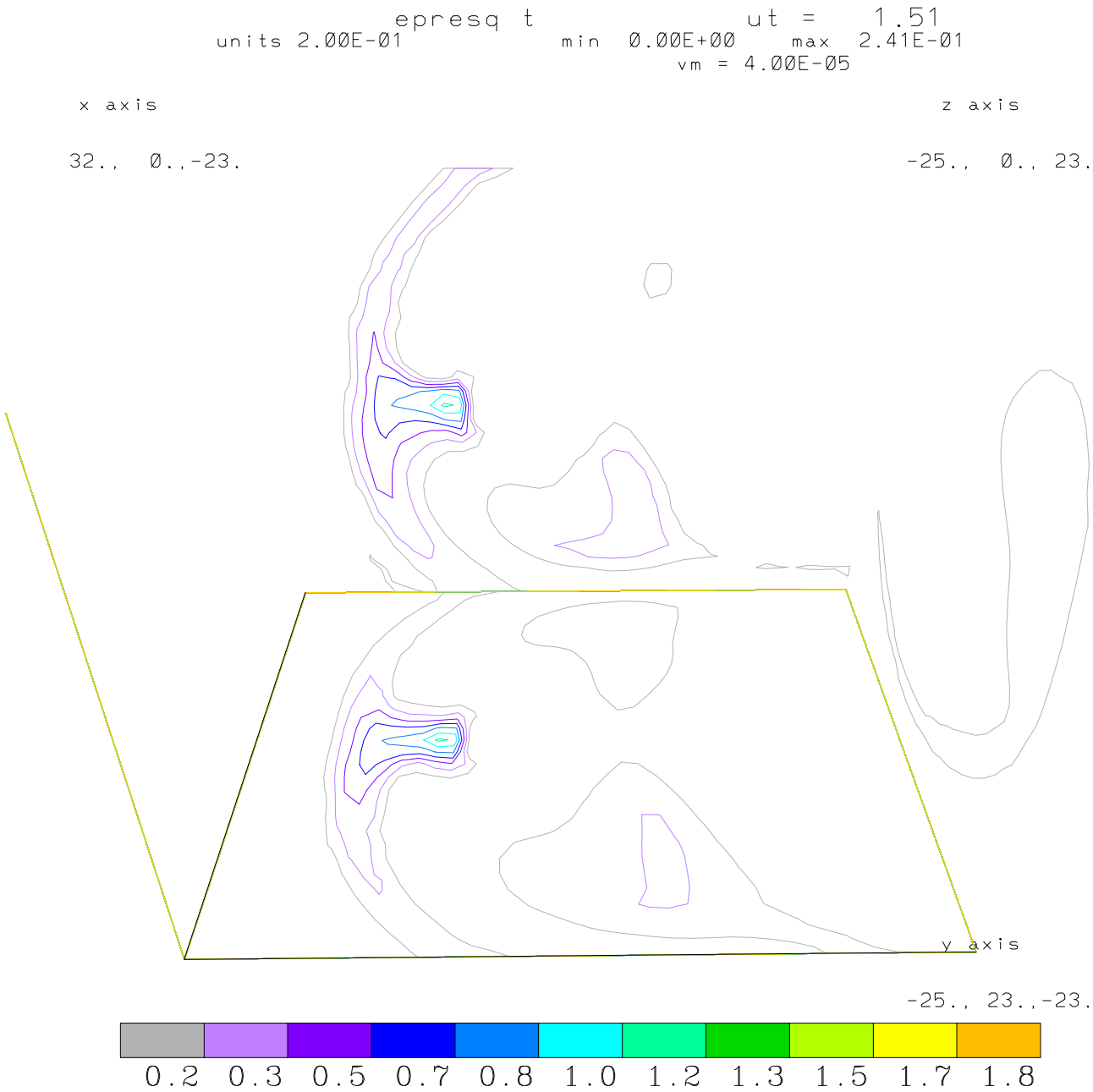
y axis
-25. , 23. ,-2
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8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z axis
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-25., 0., 23.
y axis
-25., 23.,-23.
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0.5
0.7
0.8
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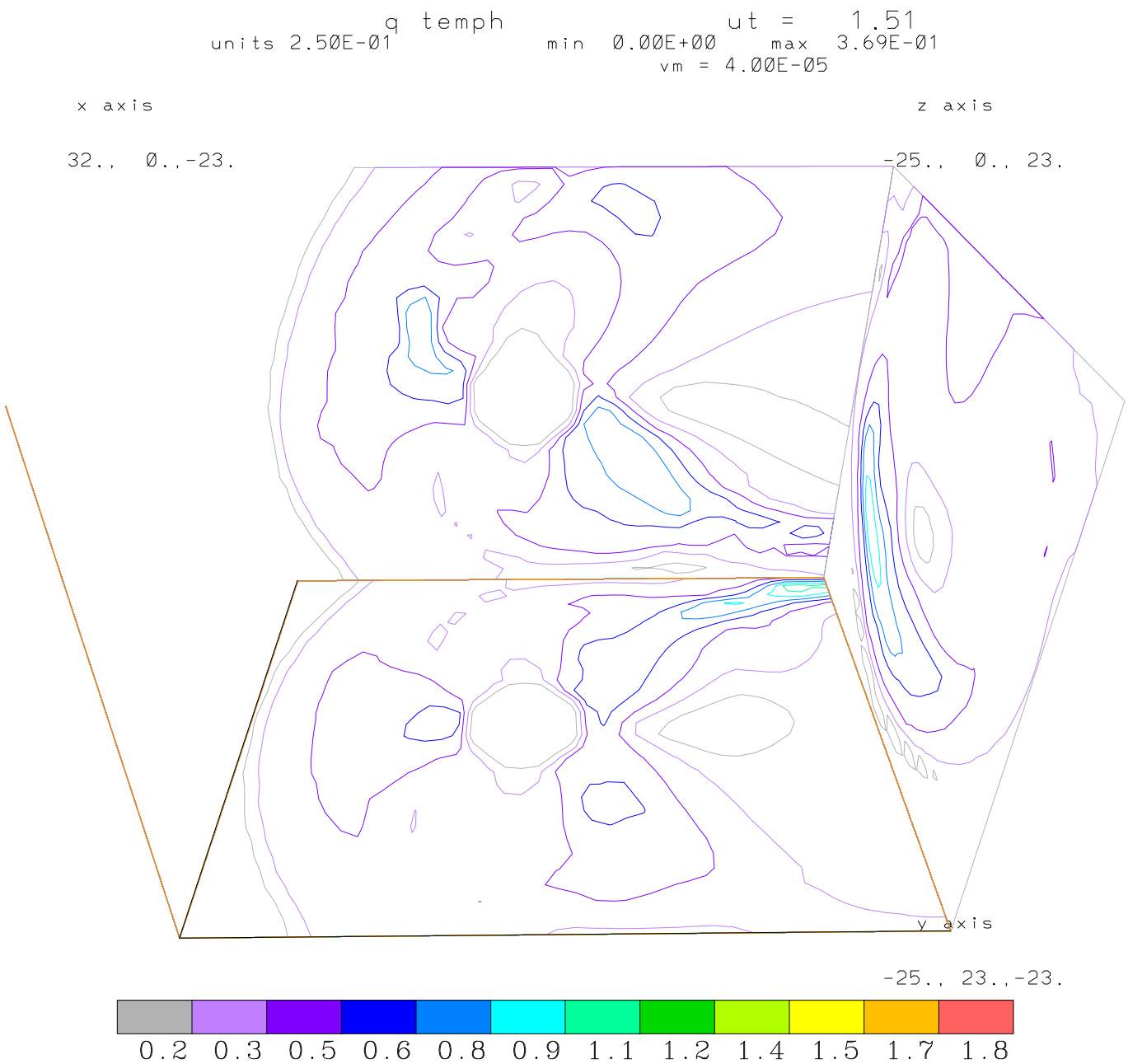
1.2
1.3
1.5
1.7
1.8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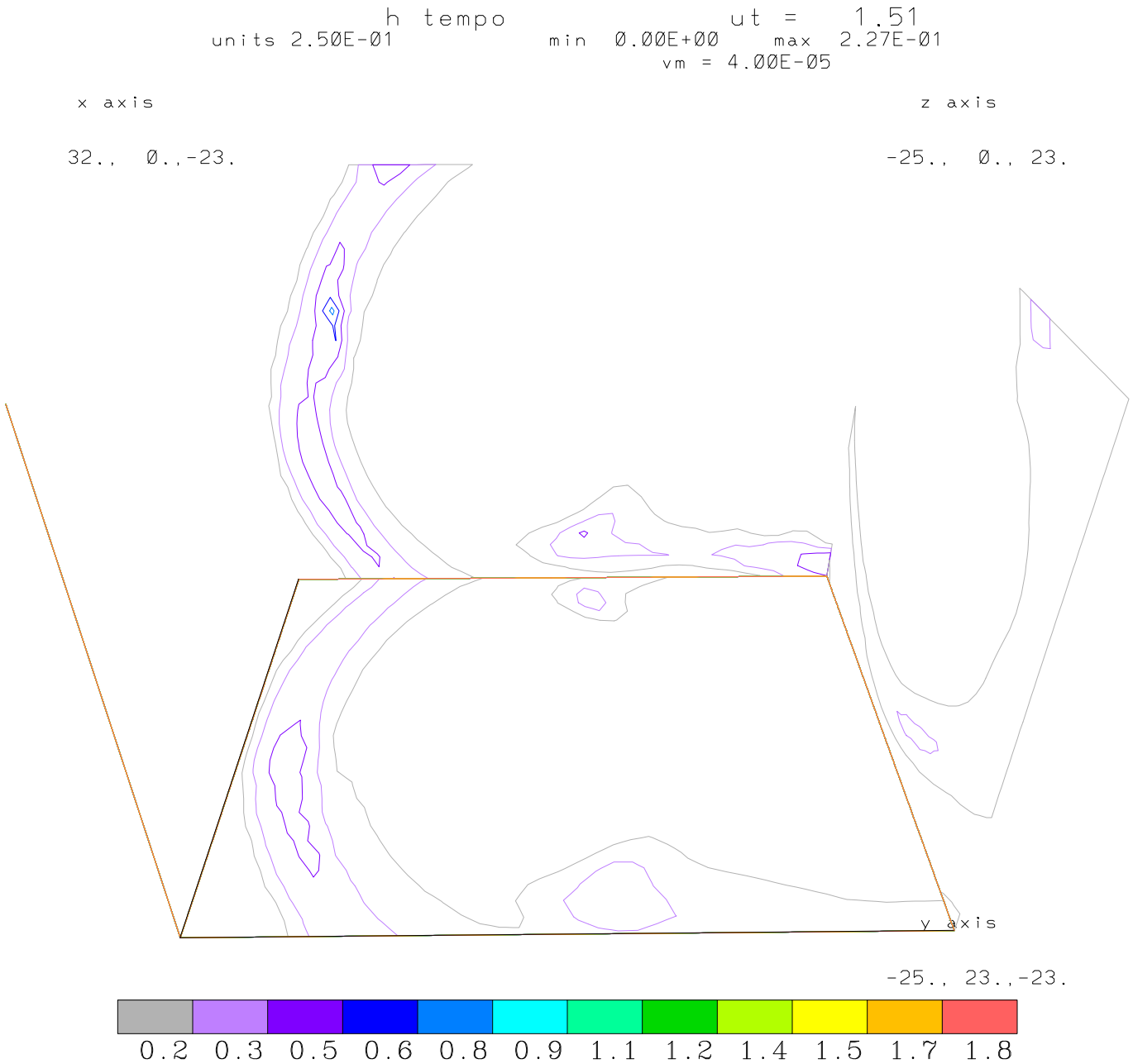
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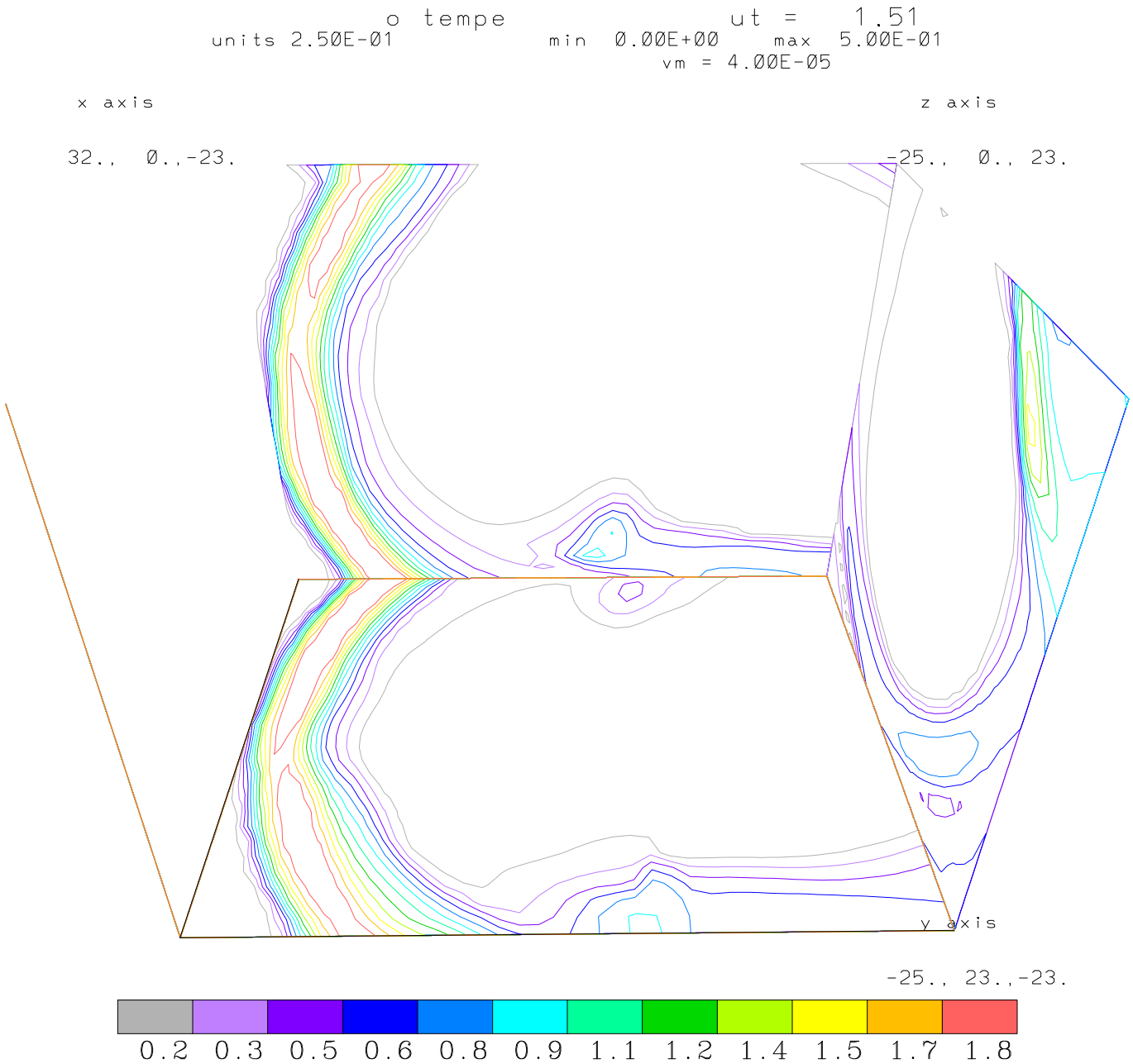
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y axis
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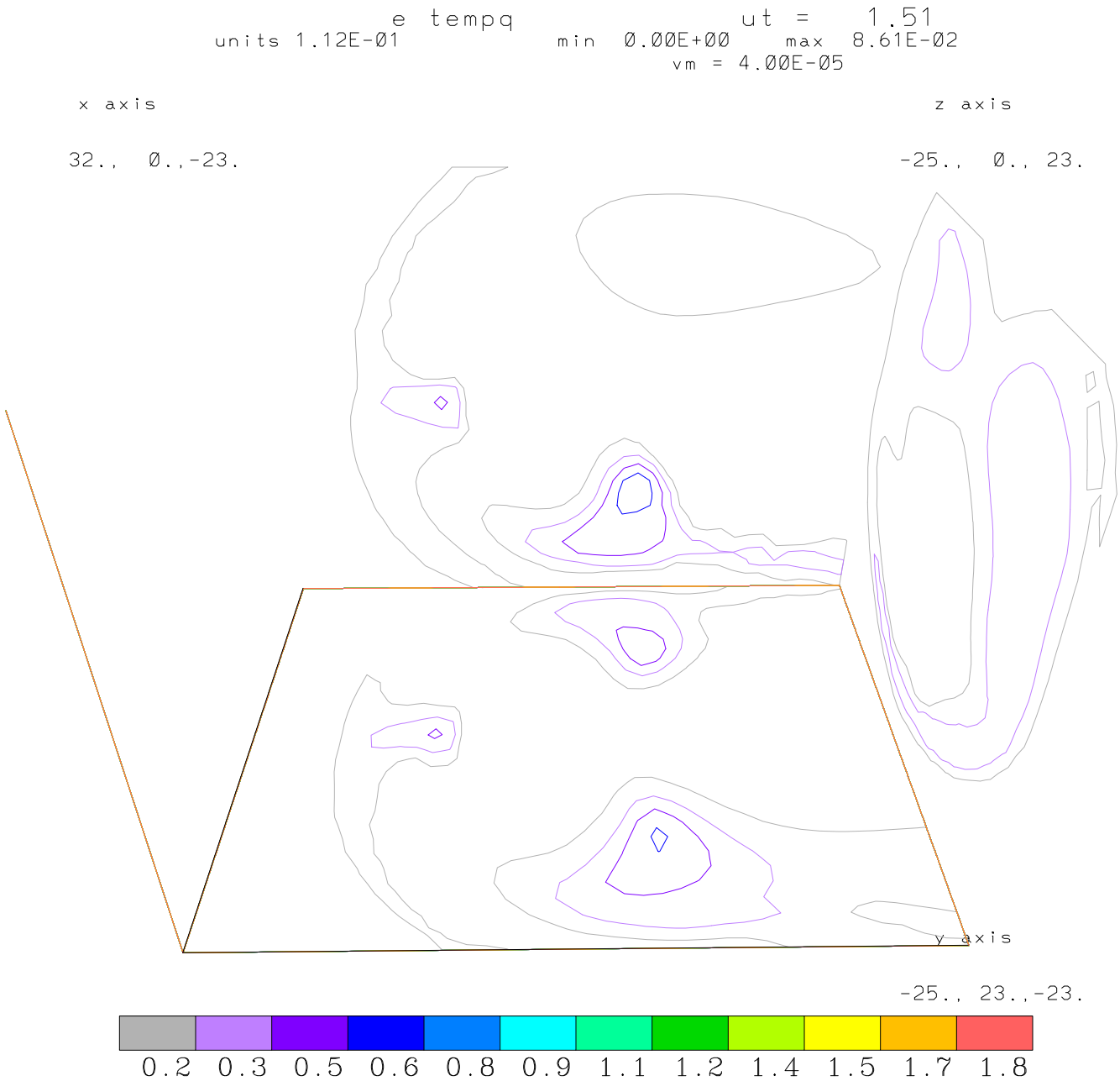
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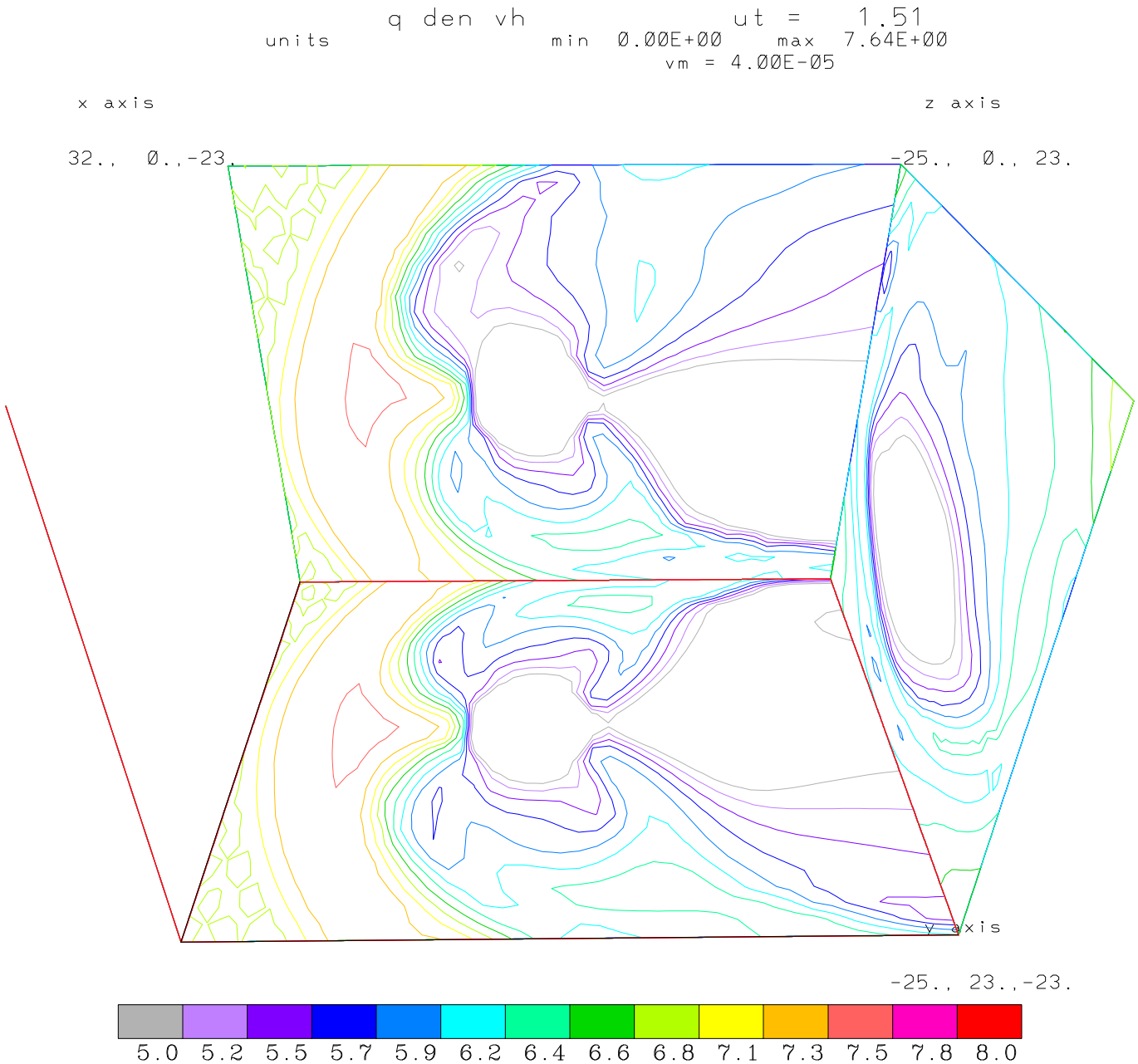
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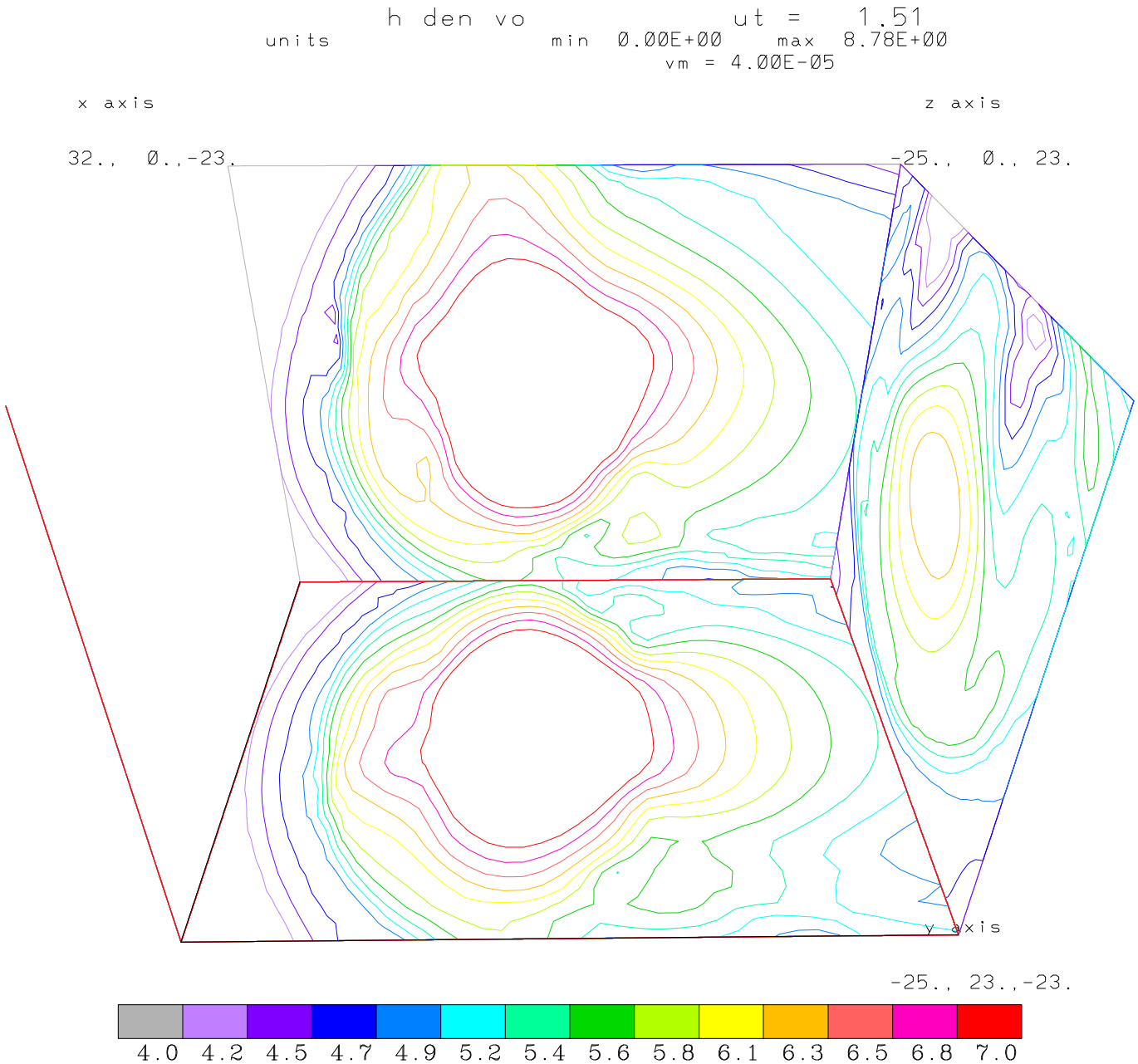
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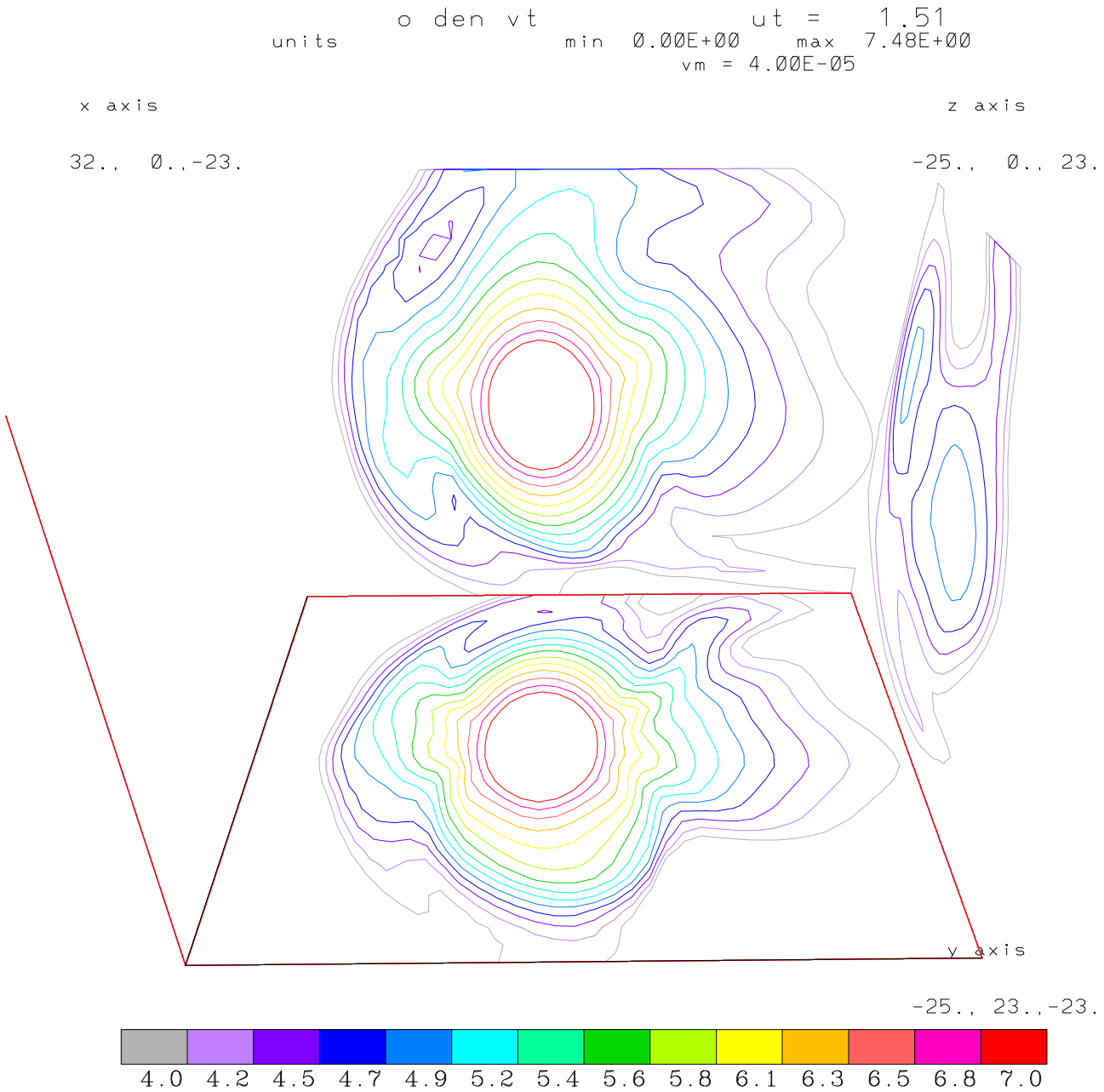
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-25., 0., 23.
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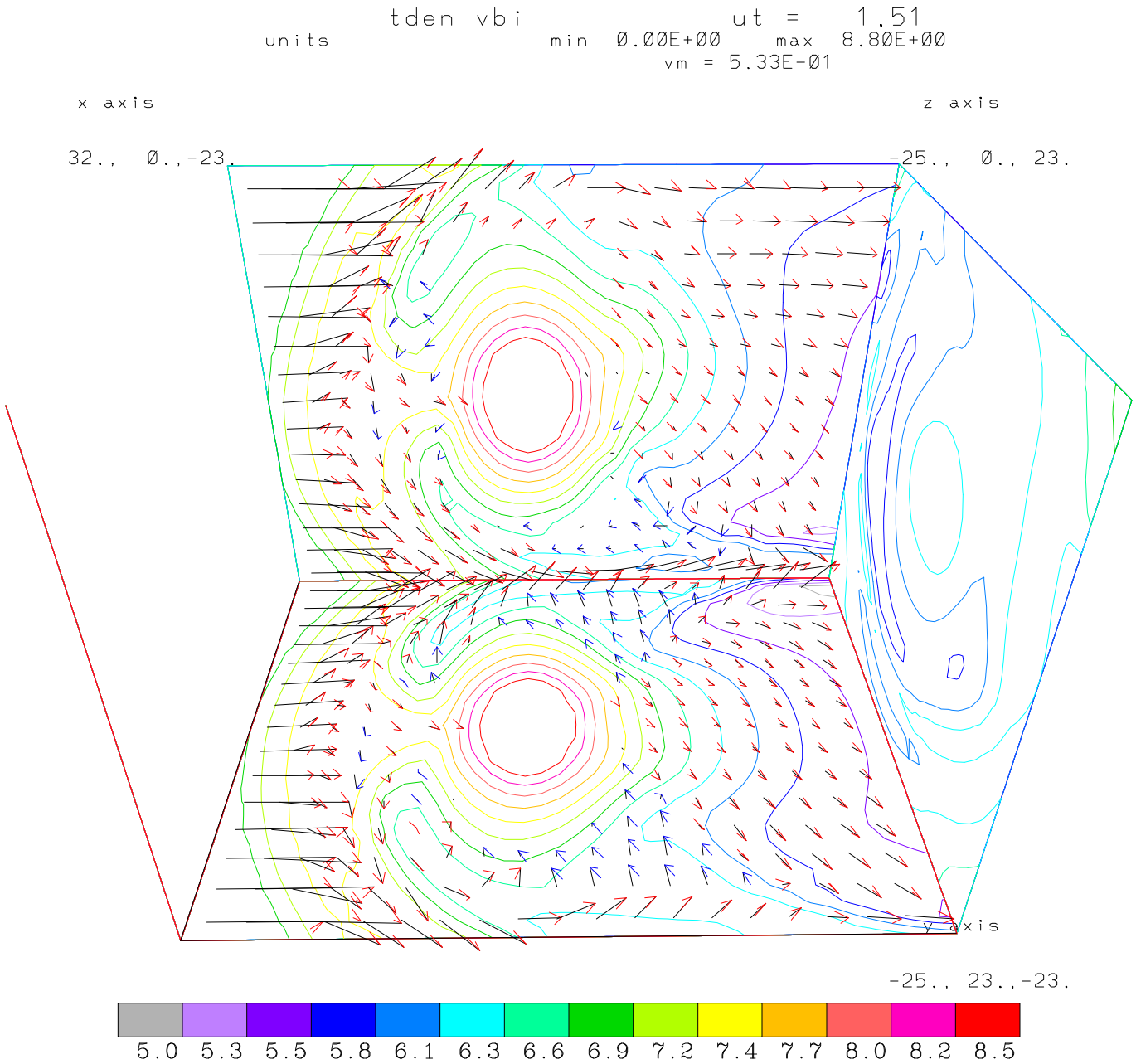
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-25., 0., 23.
y axis
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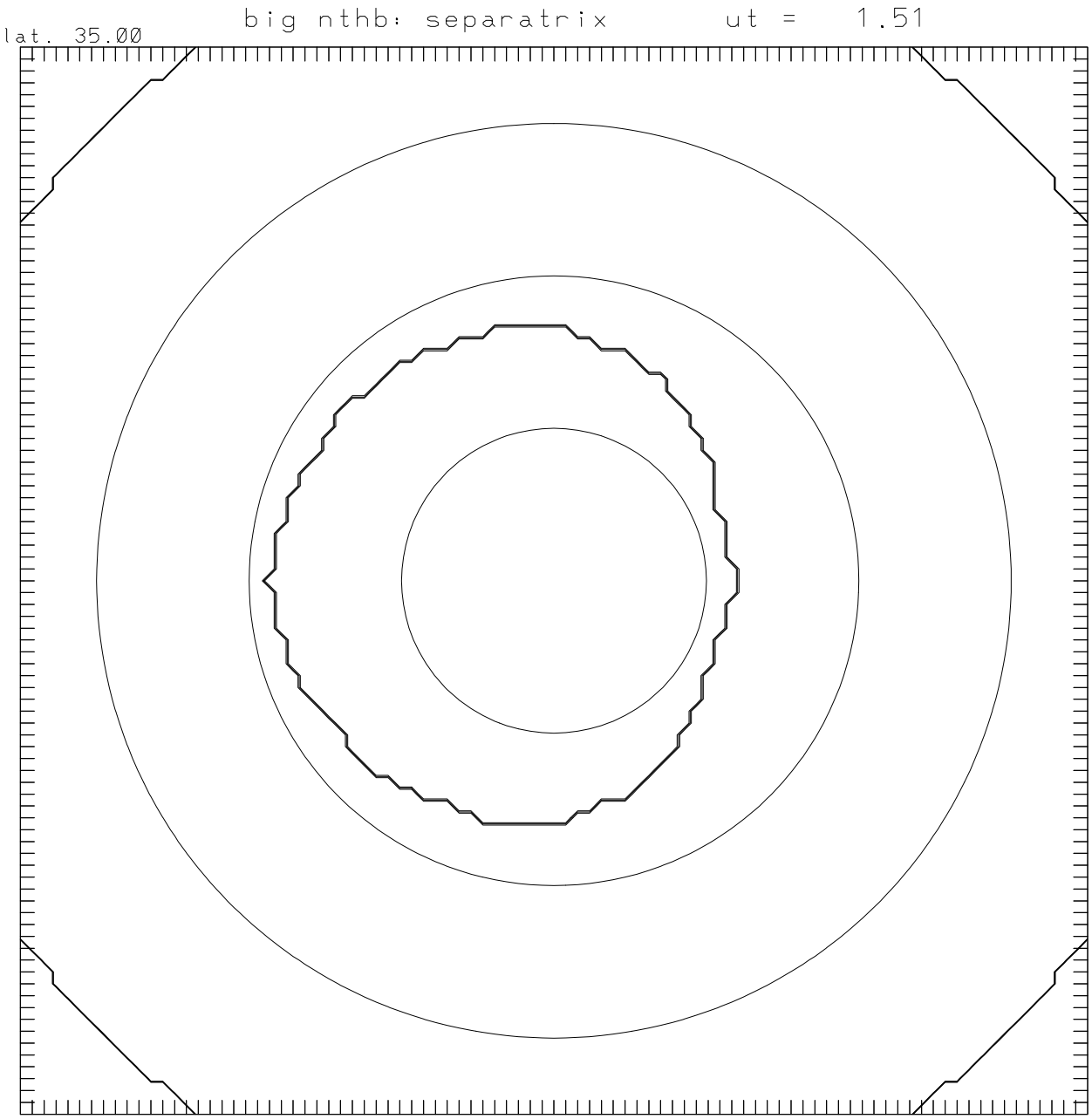
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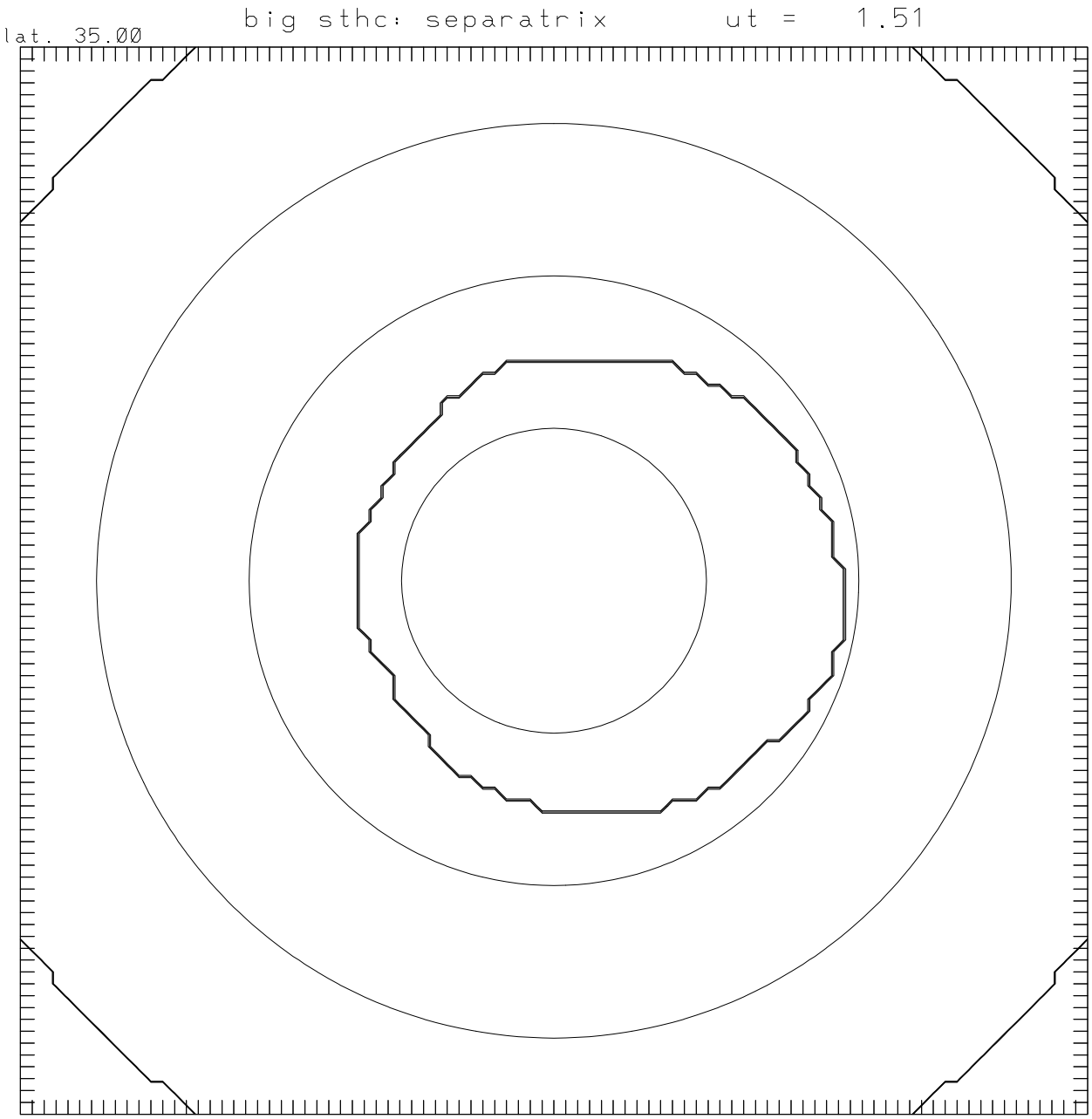
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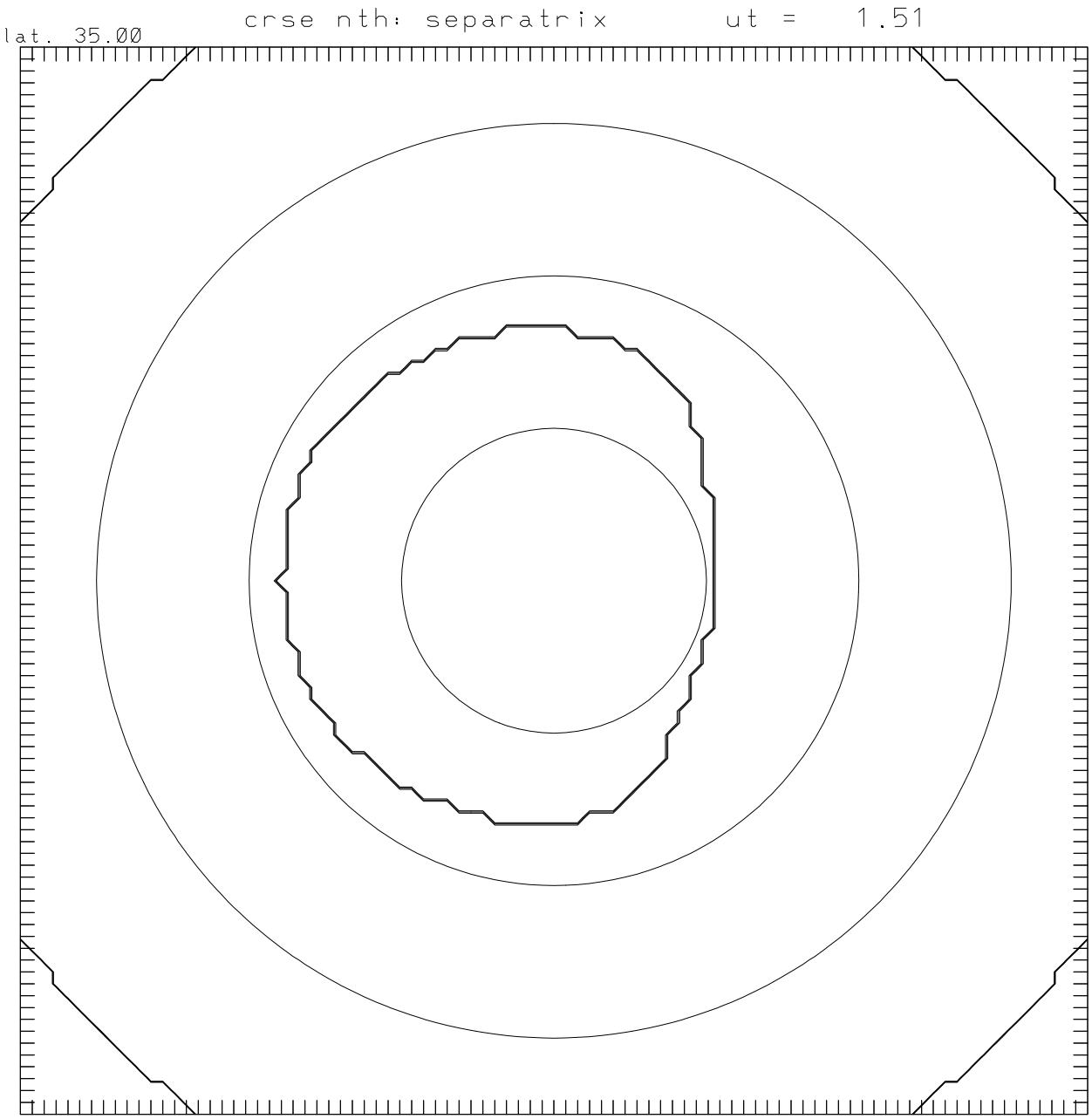
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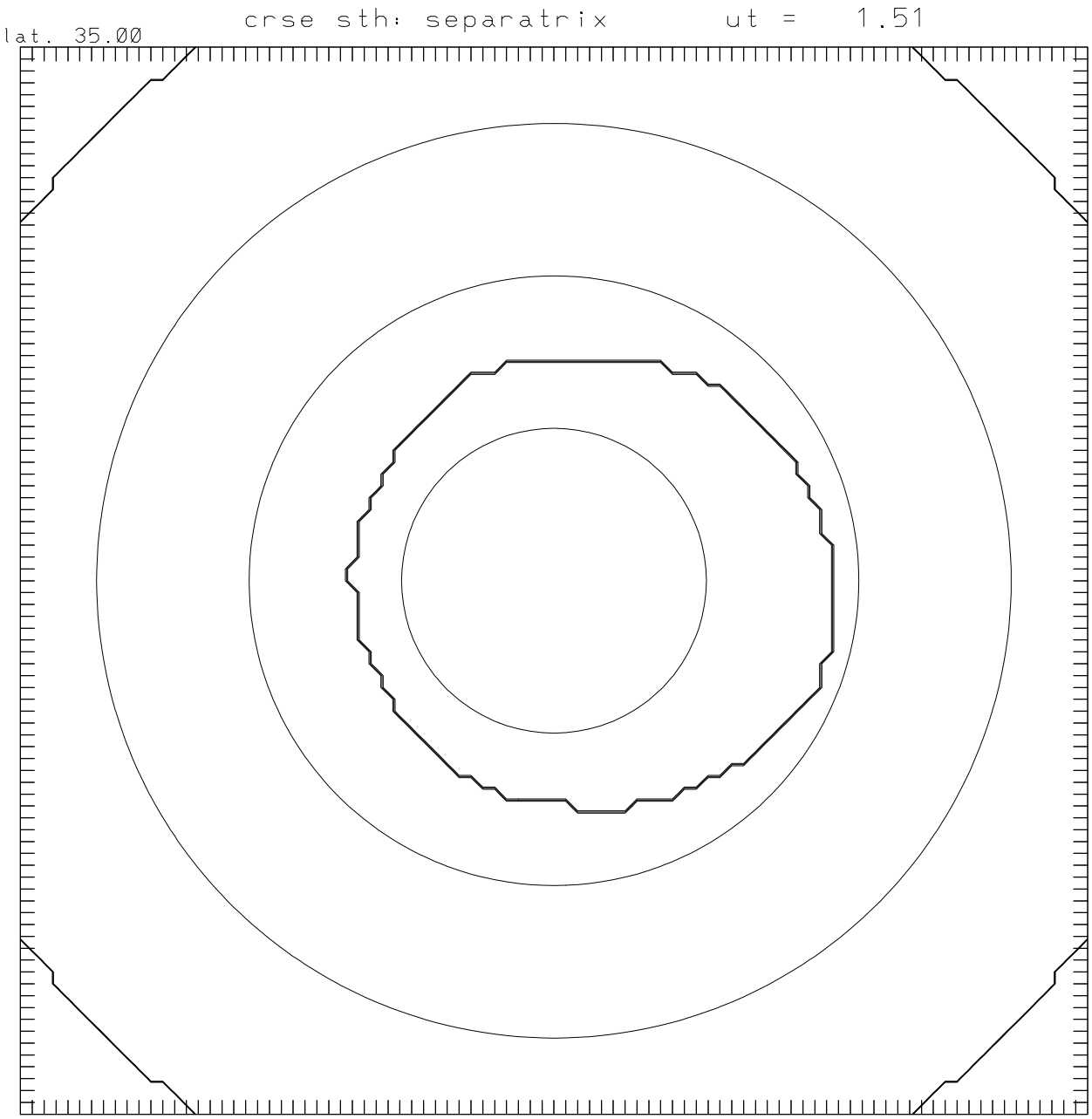
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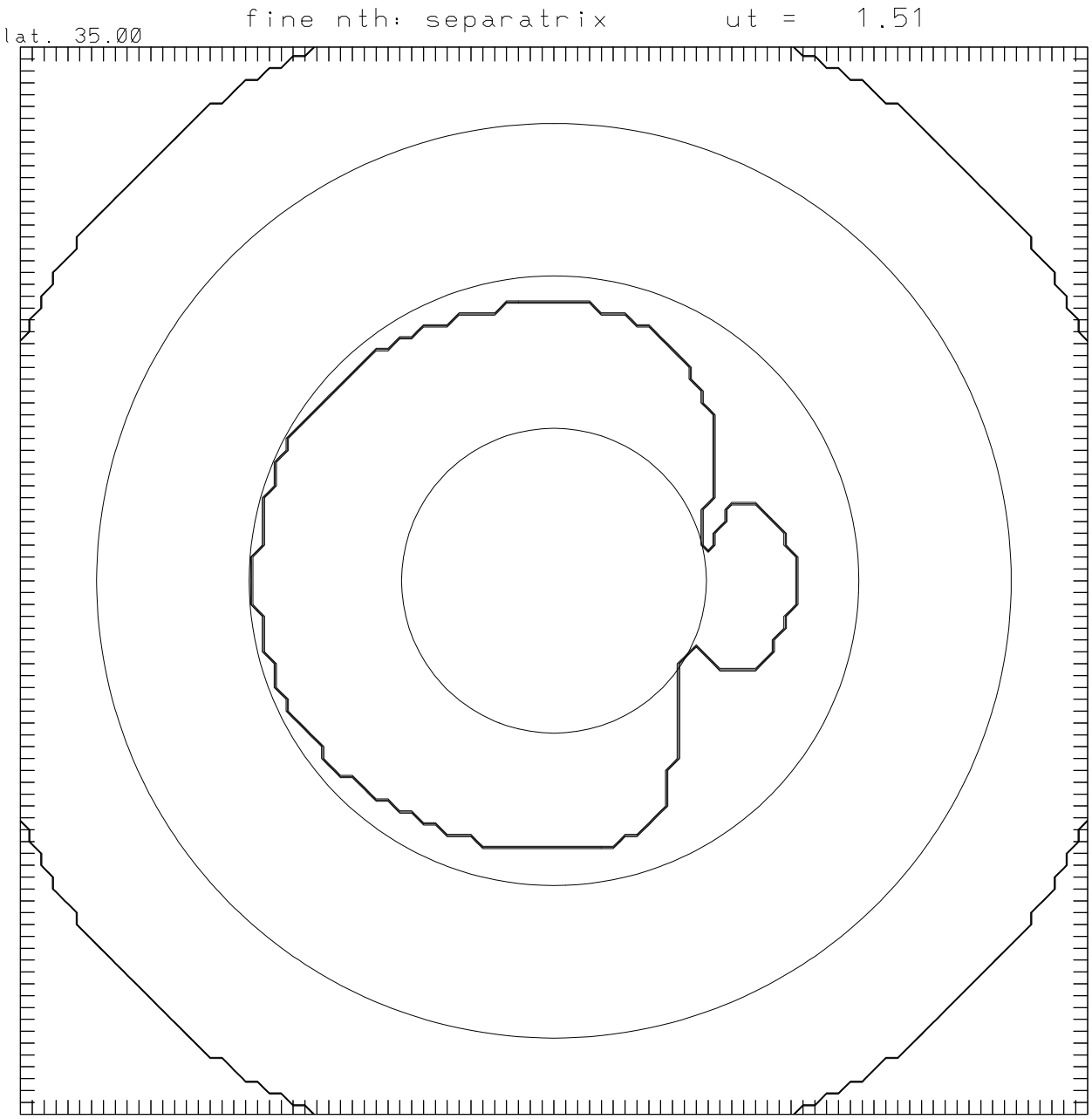
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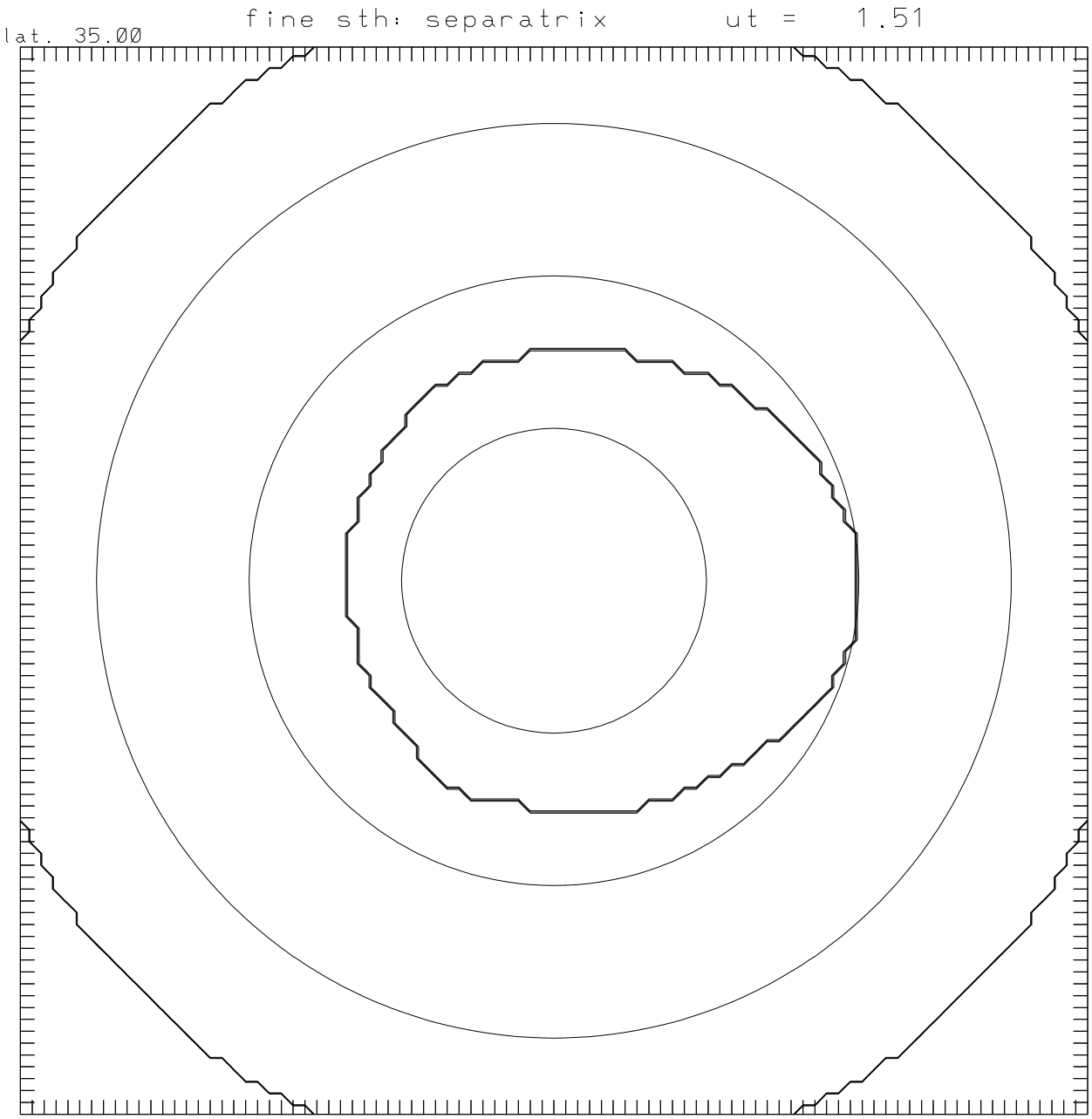
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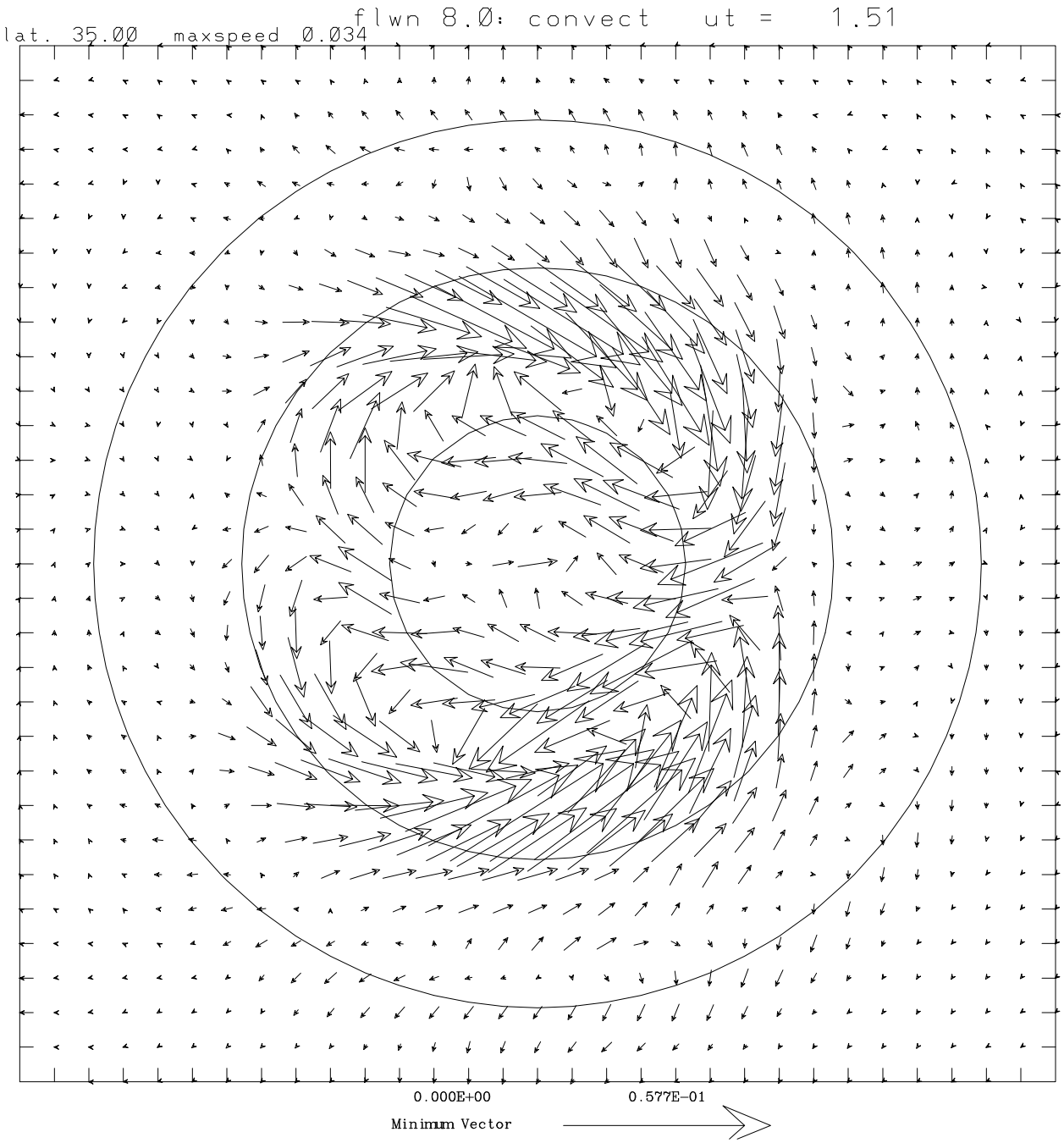
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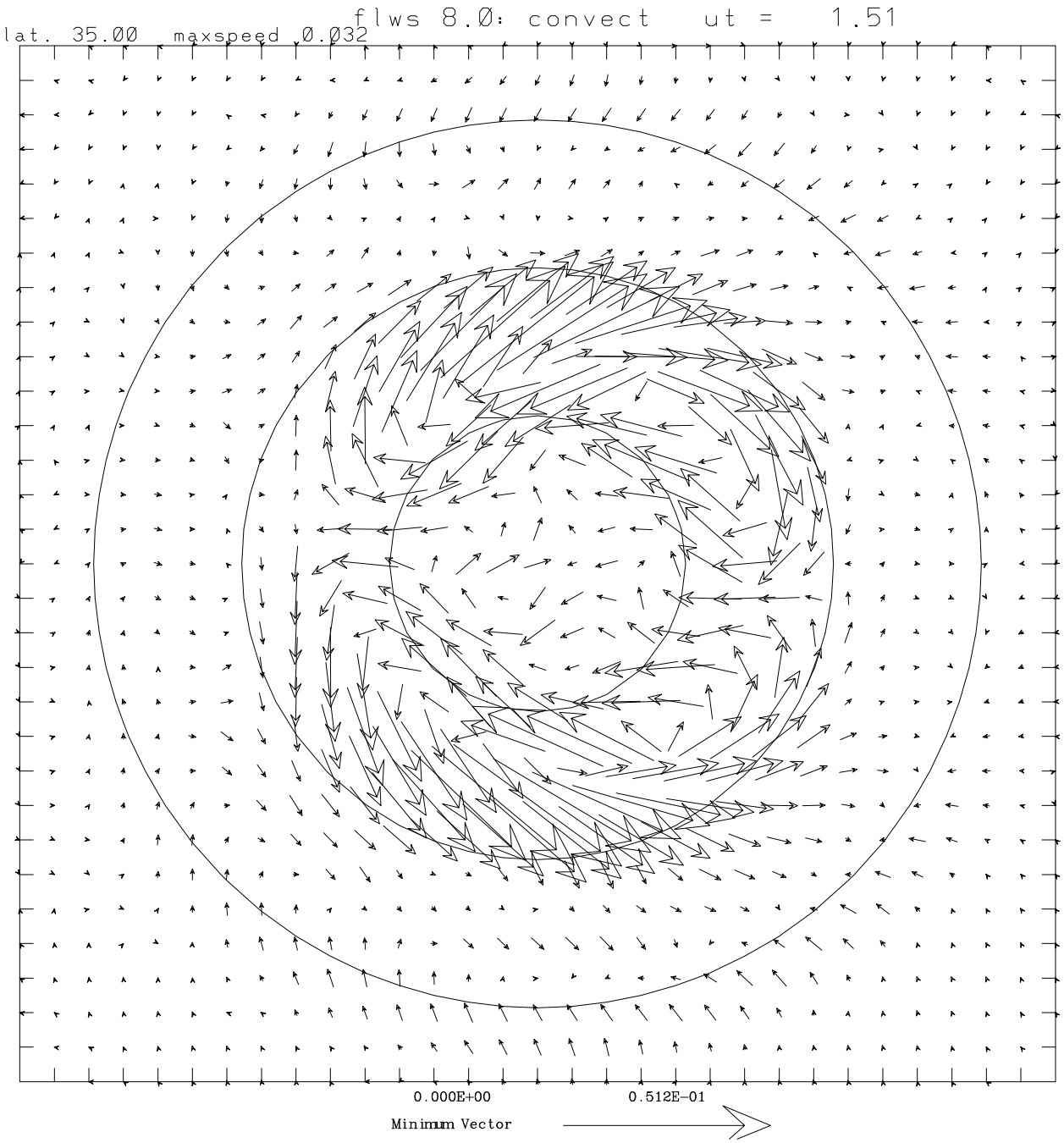
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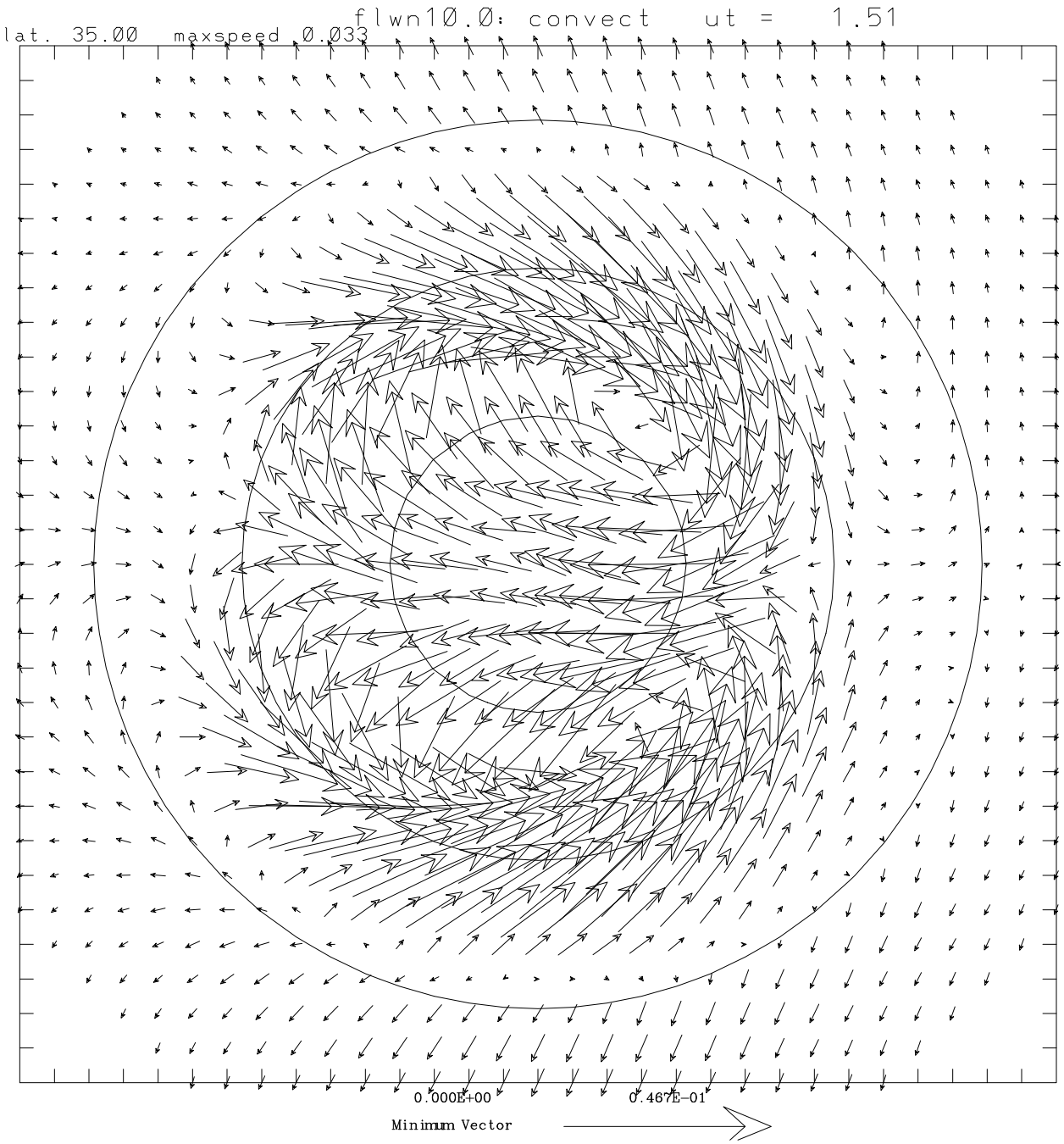
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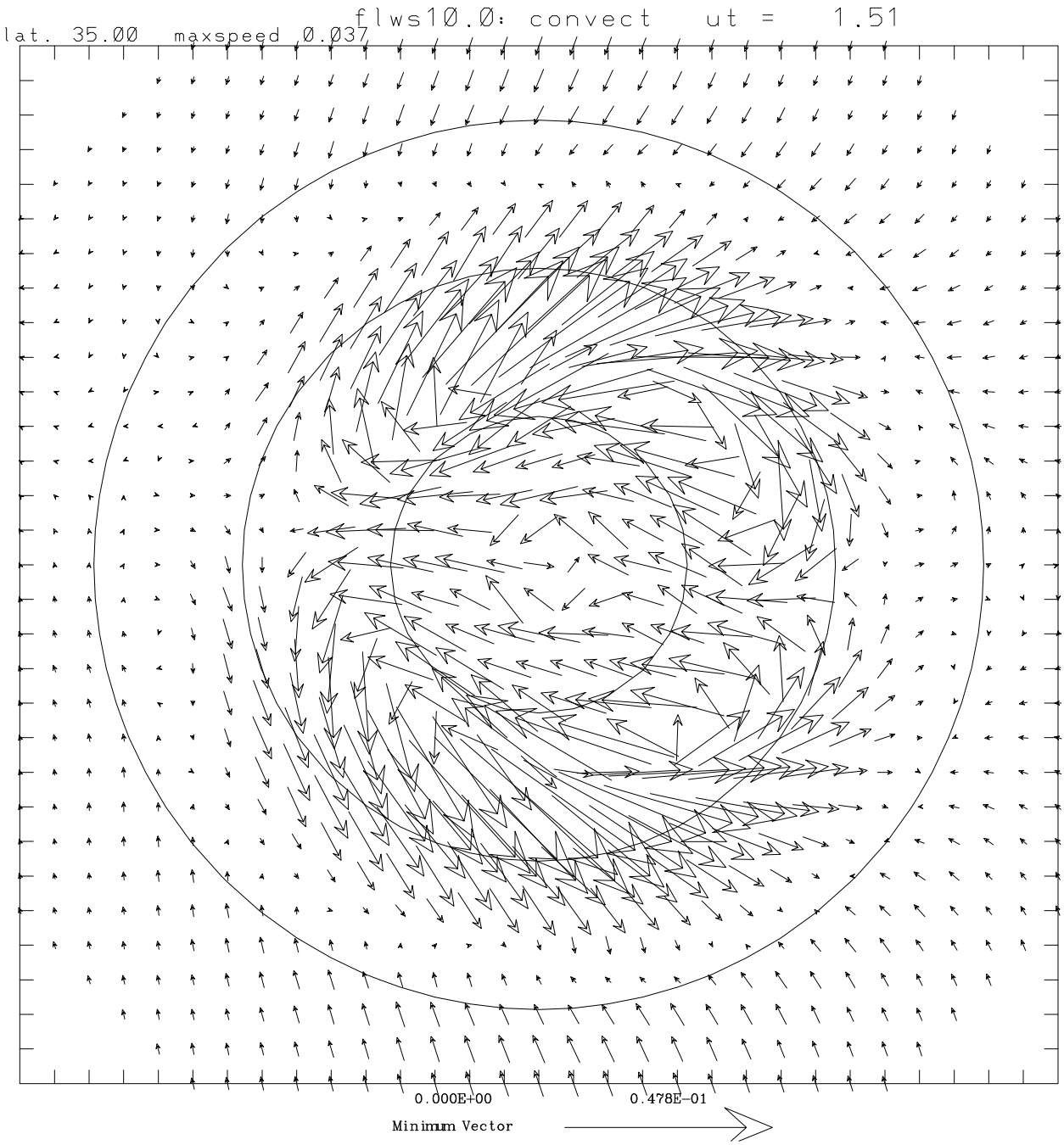
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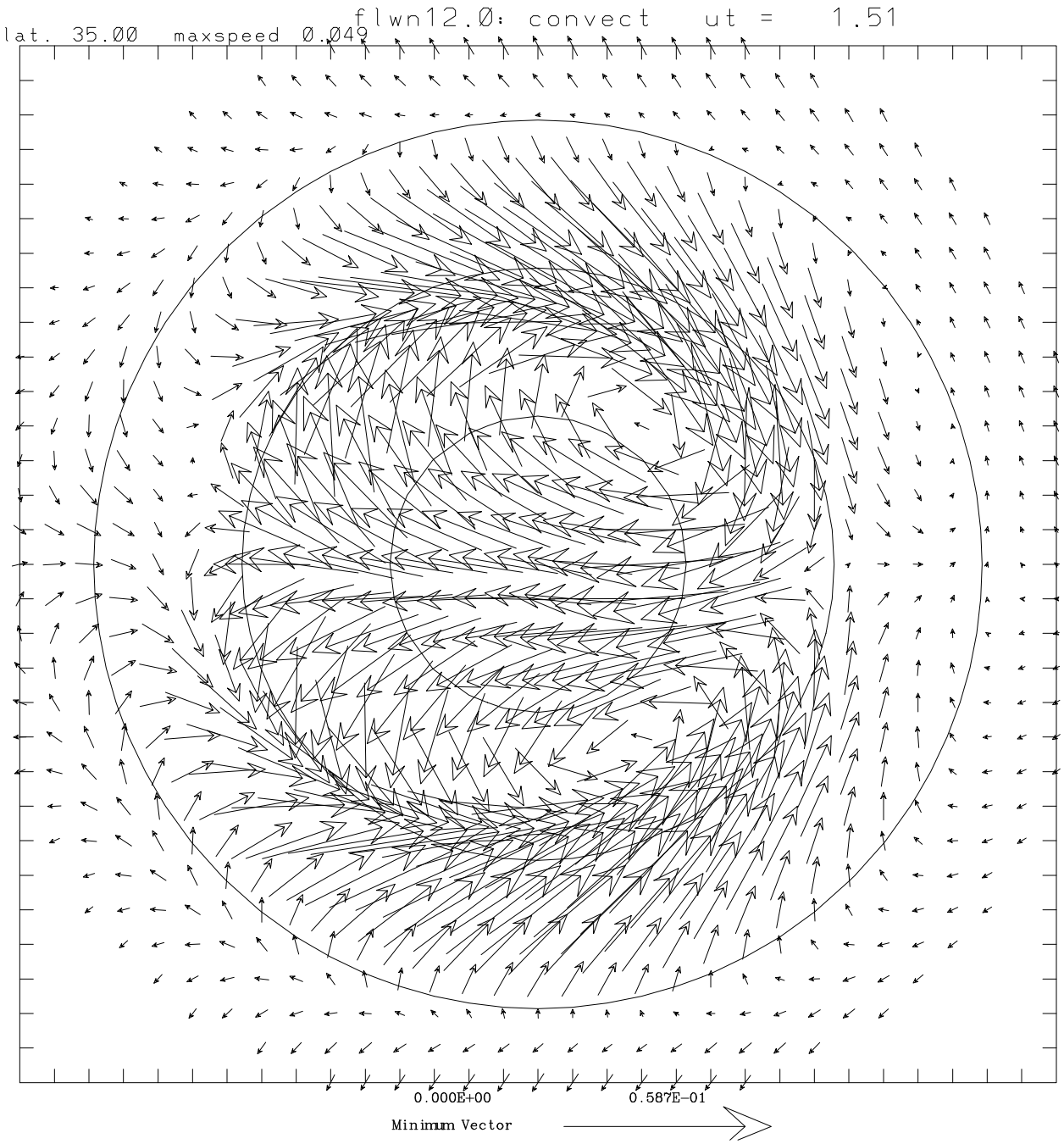
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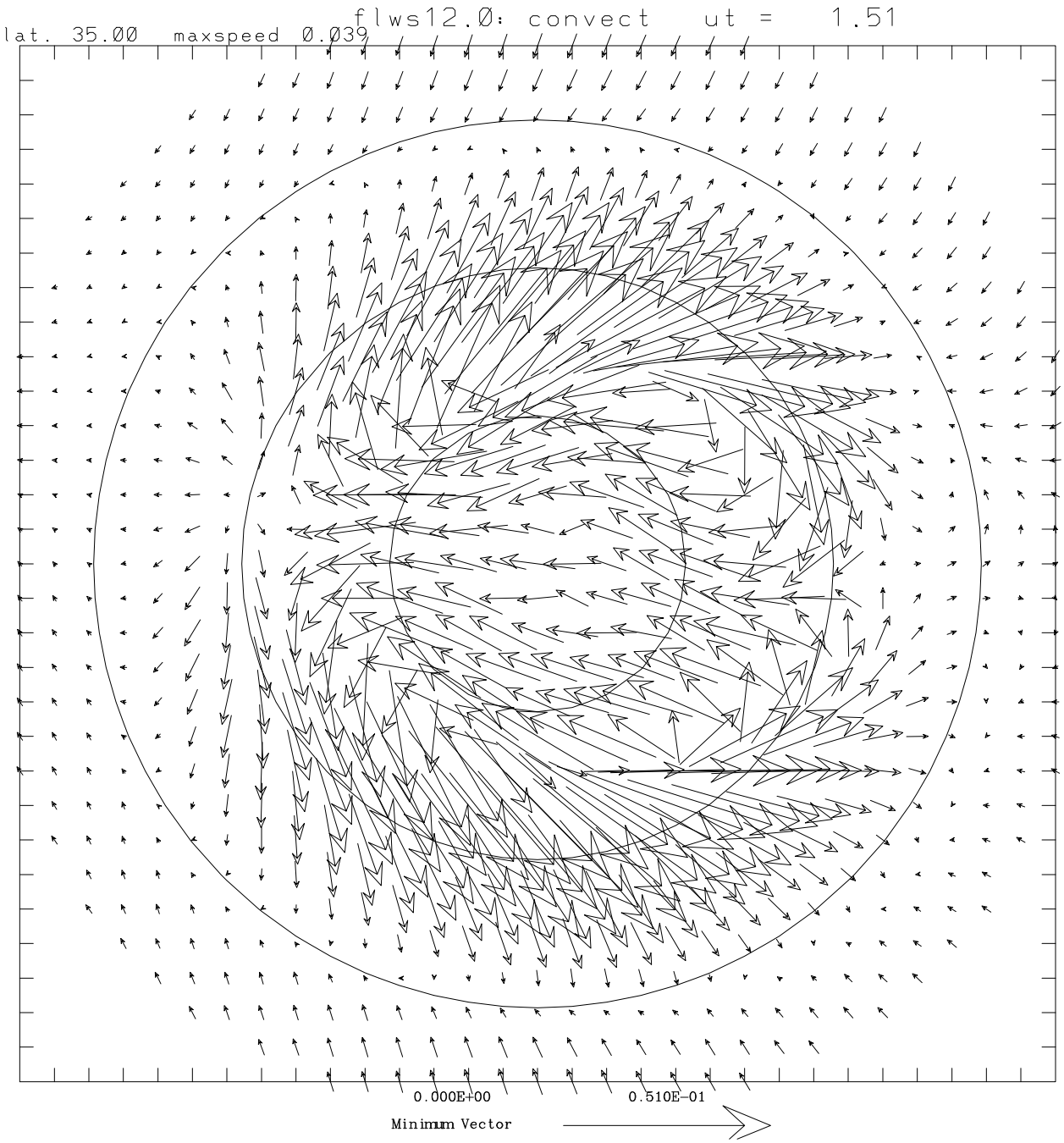
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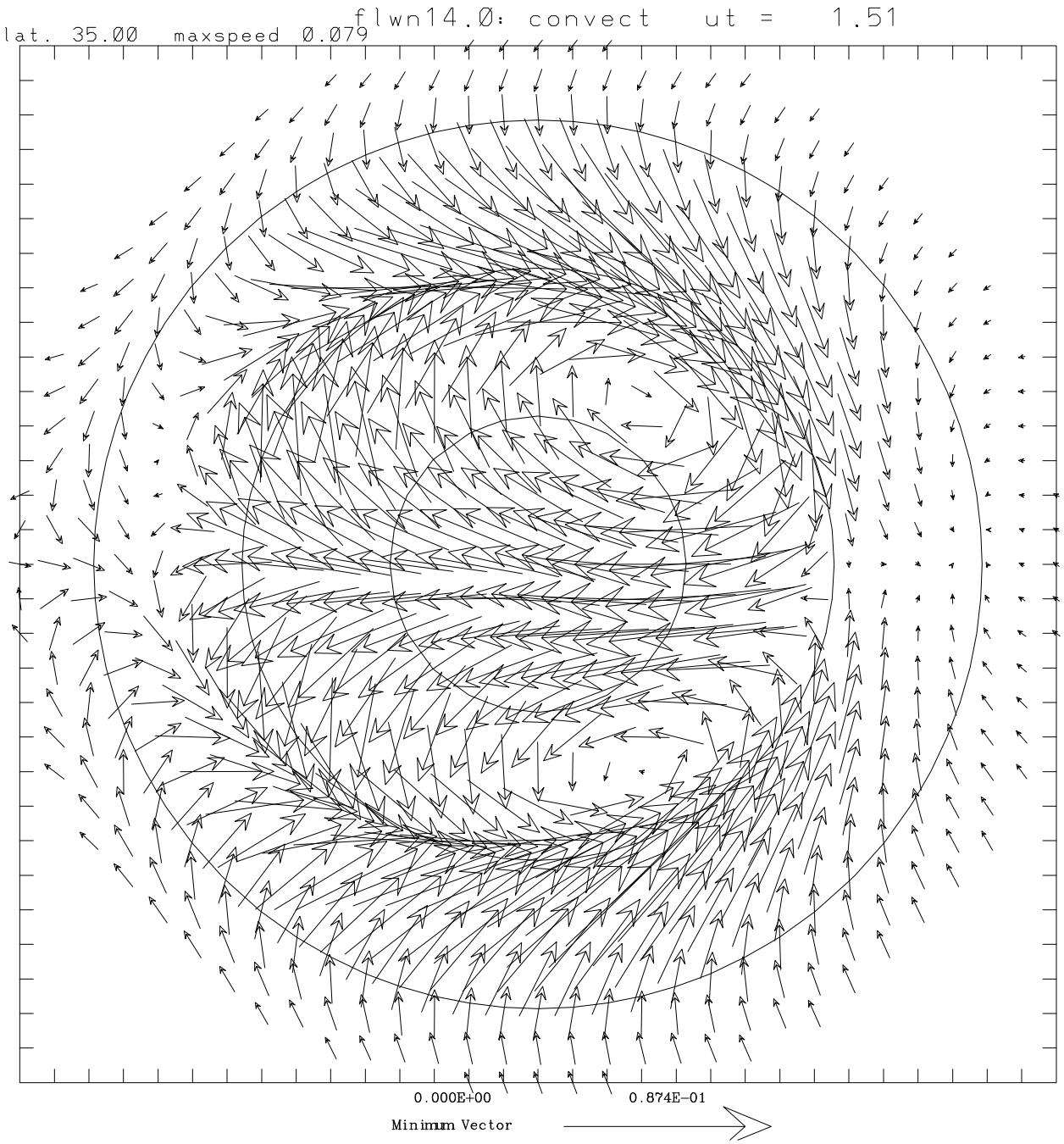
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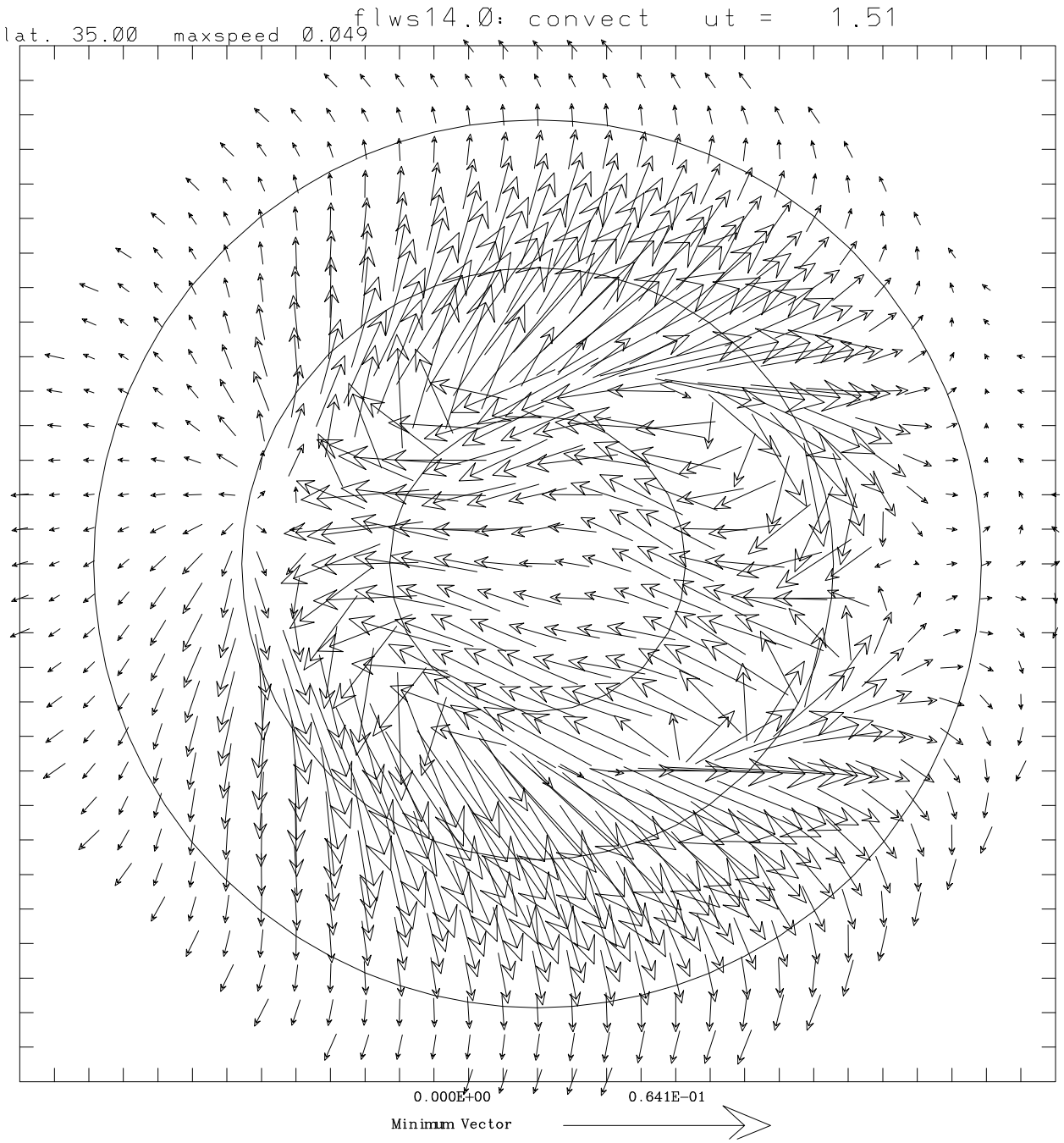
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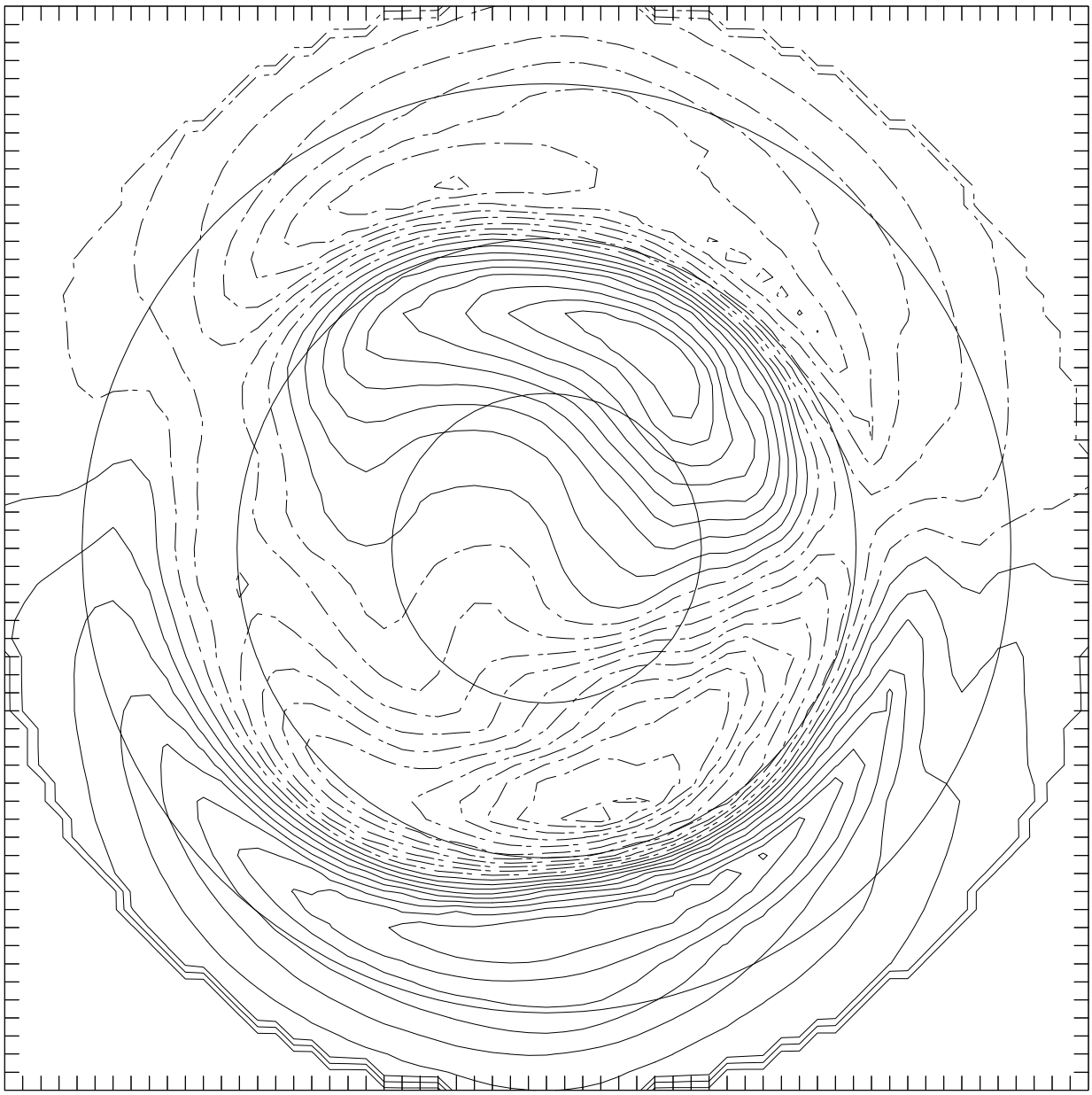

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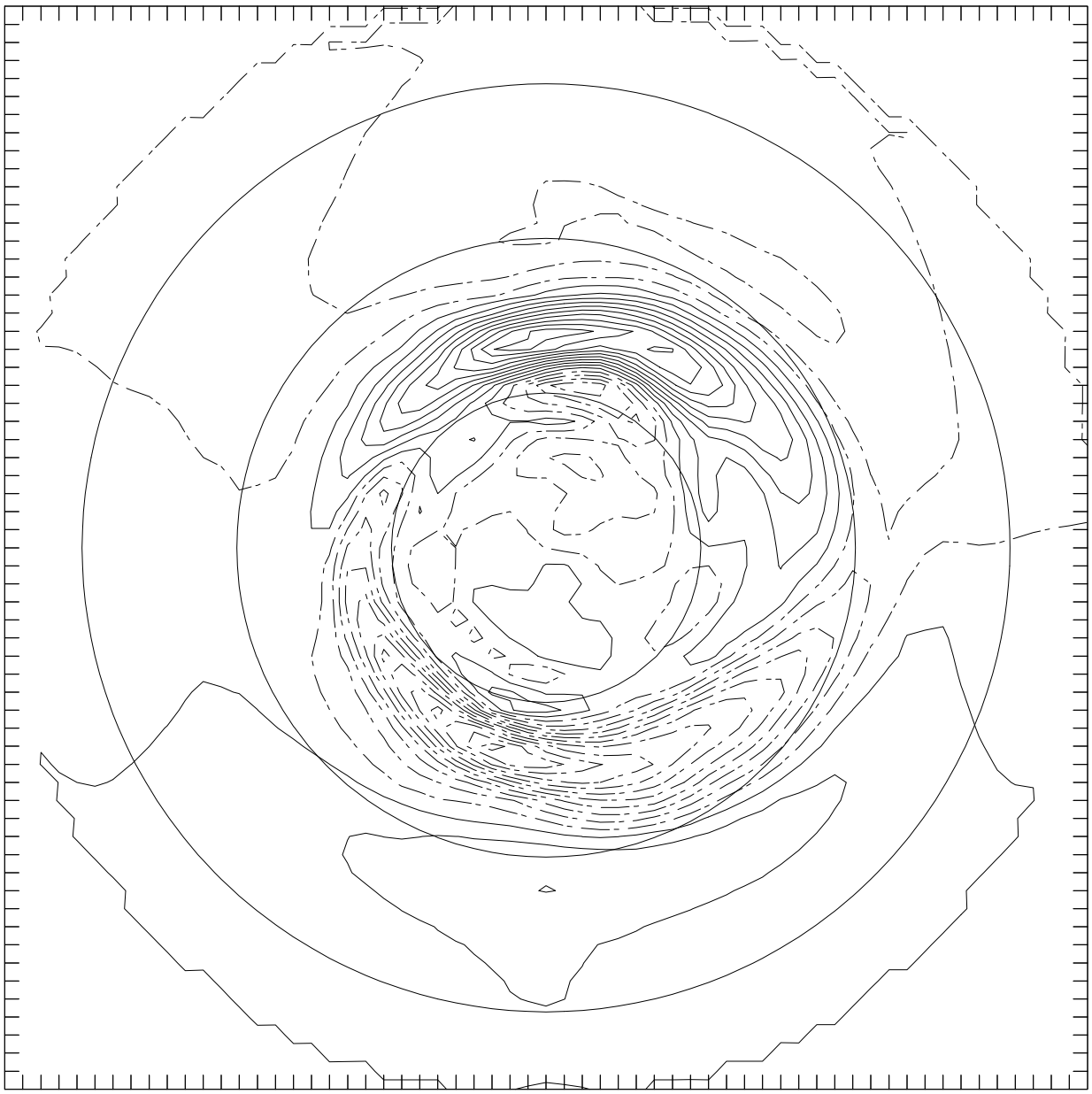

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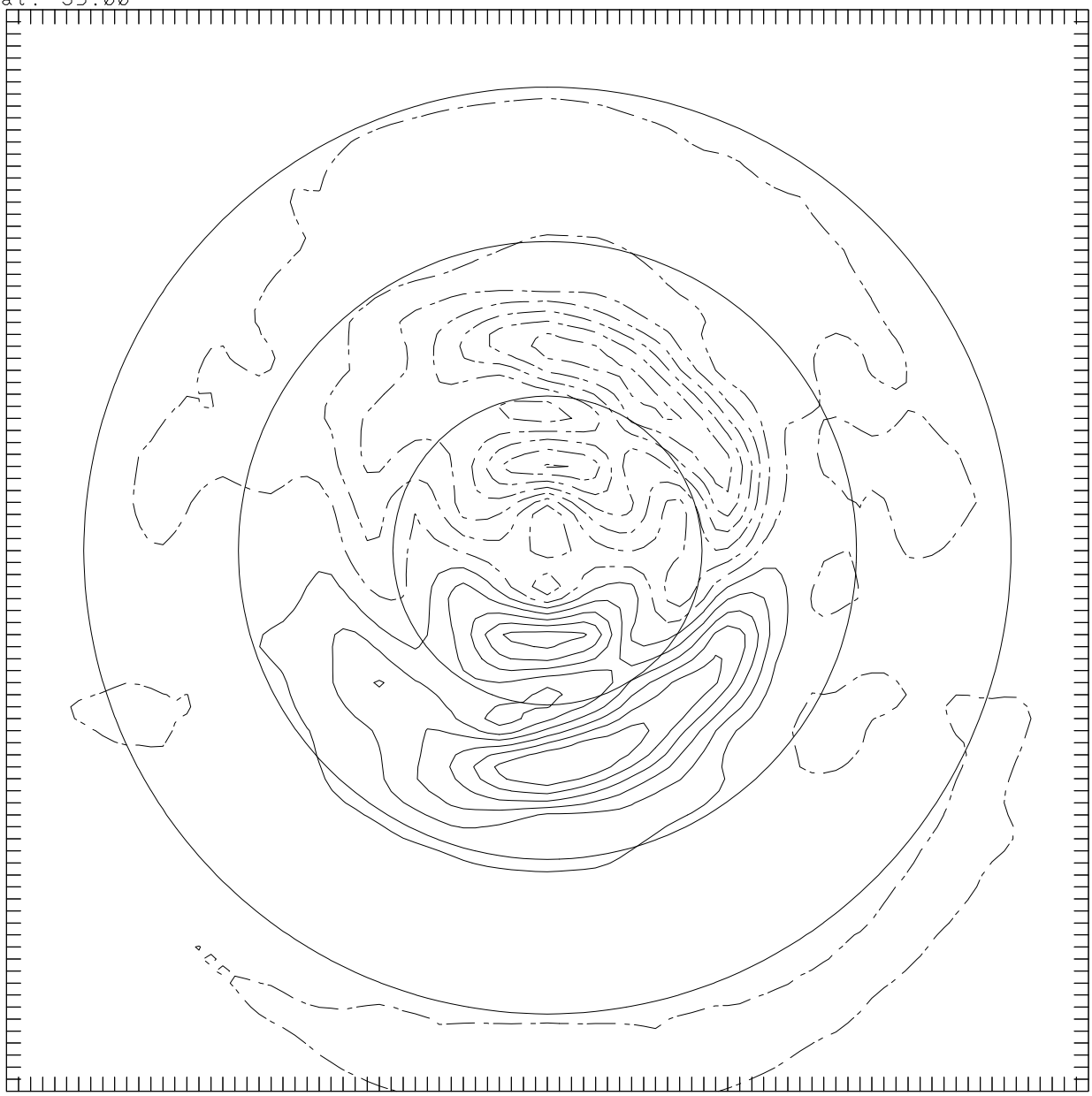

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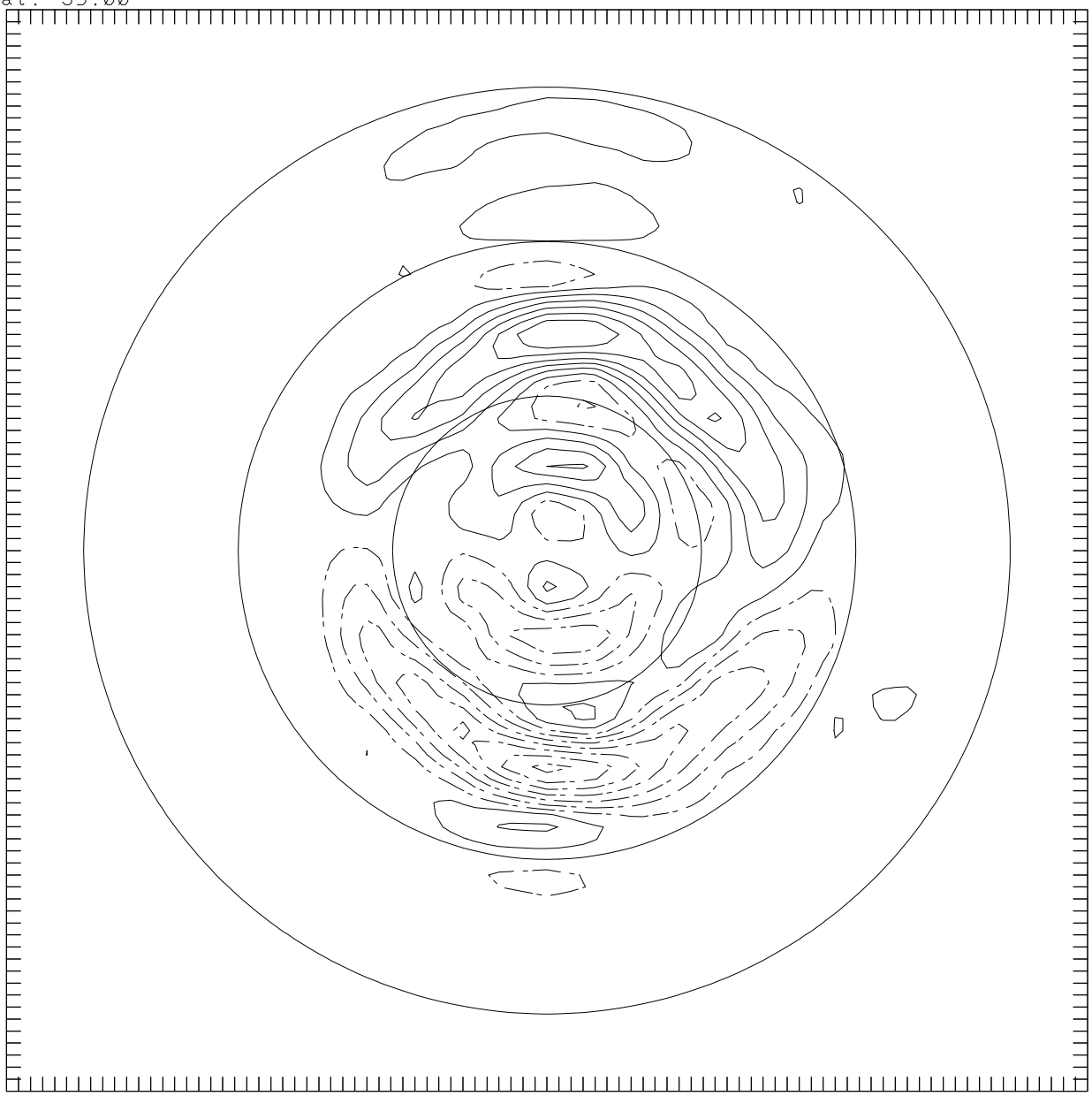

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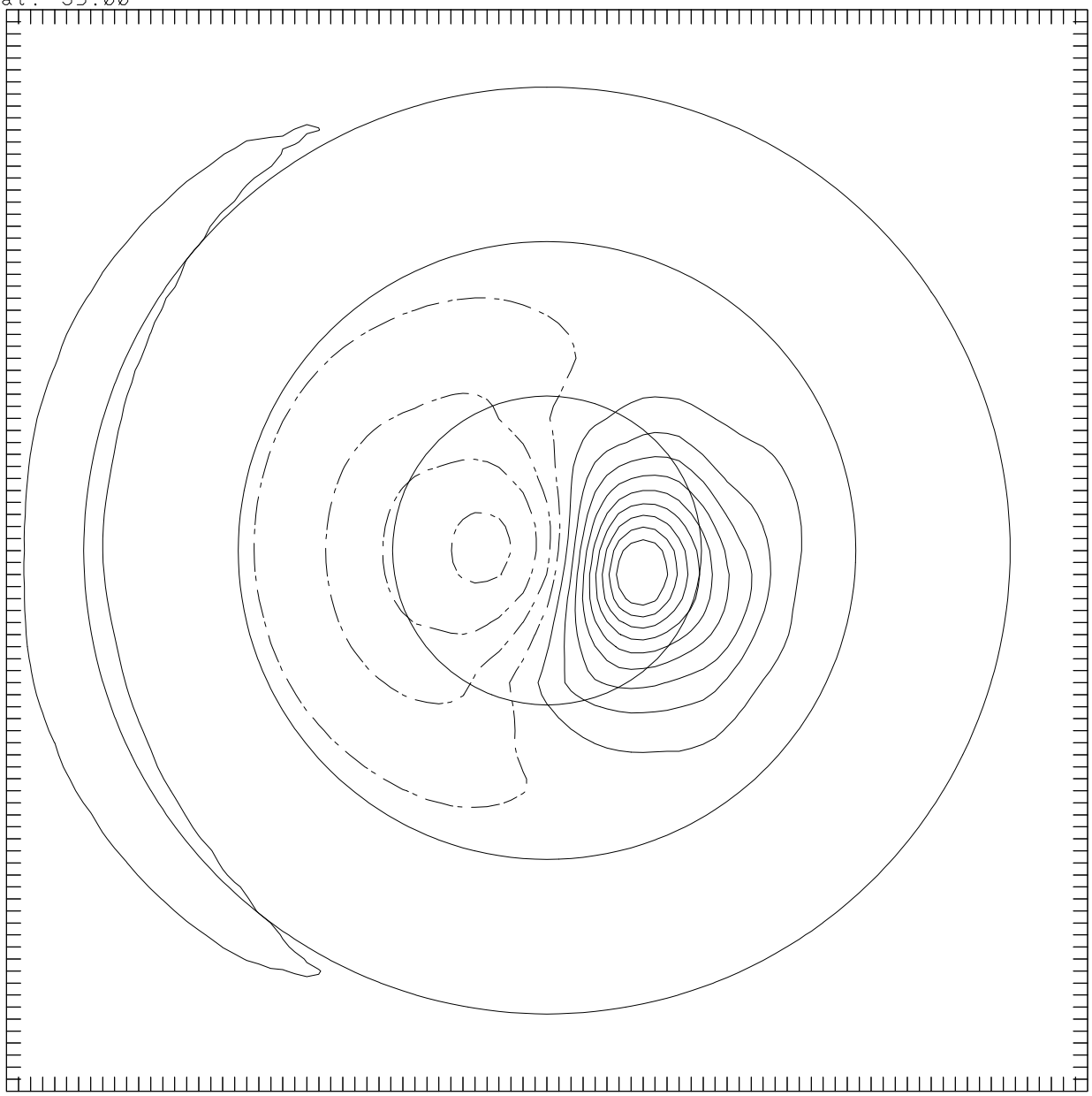

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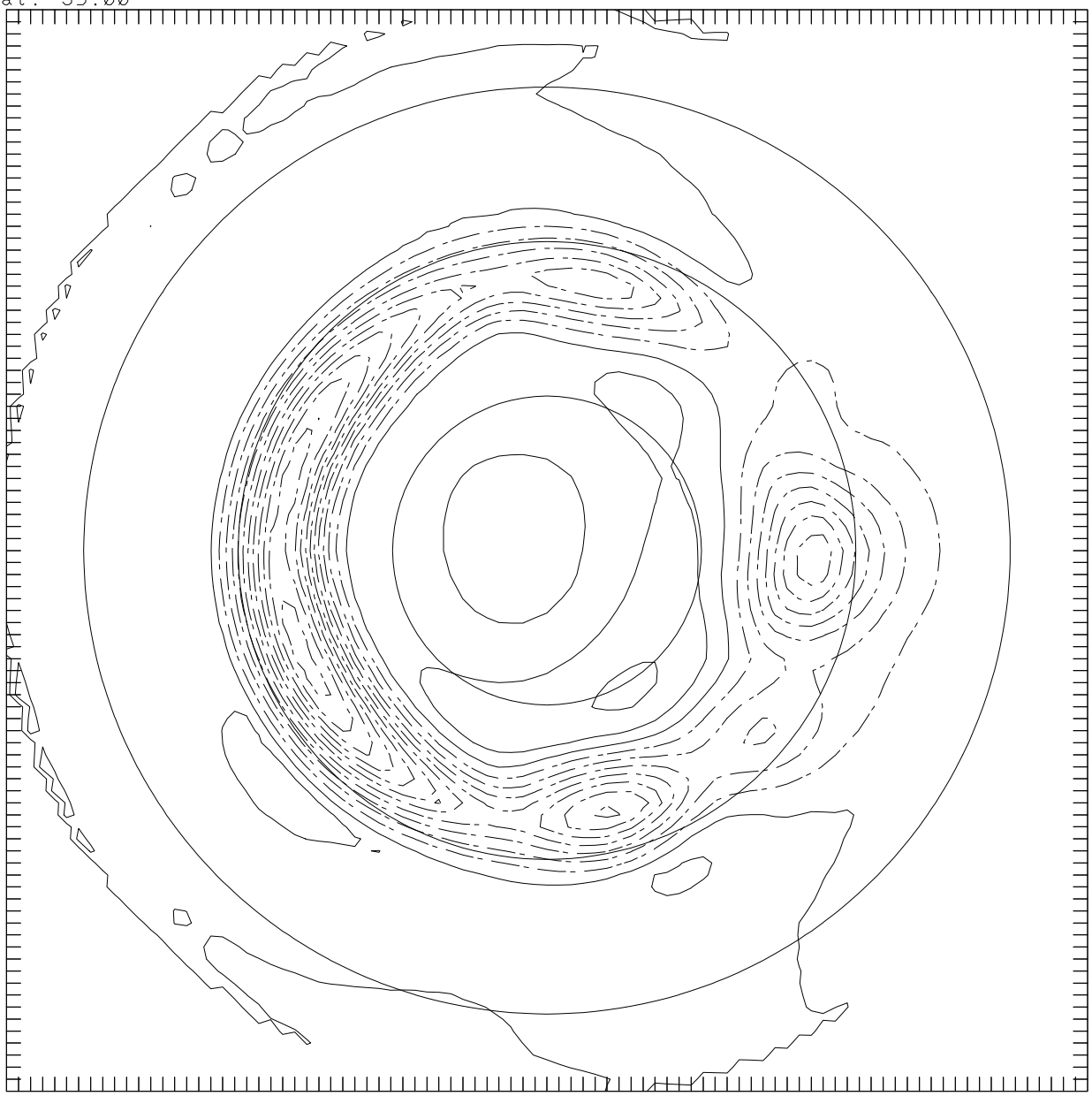

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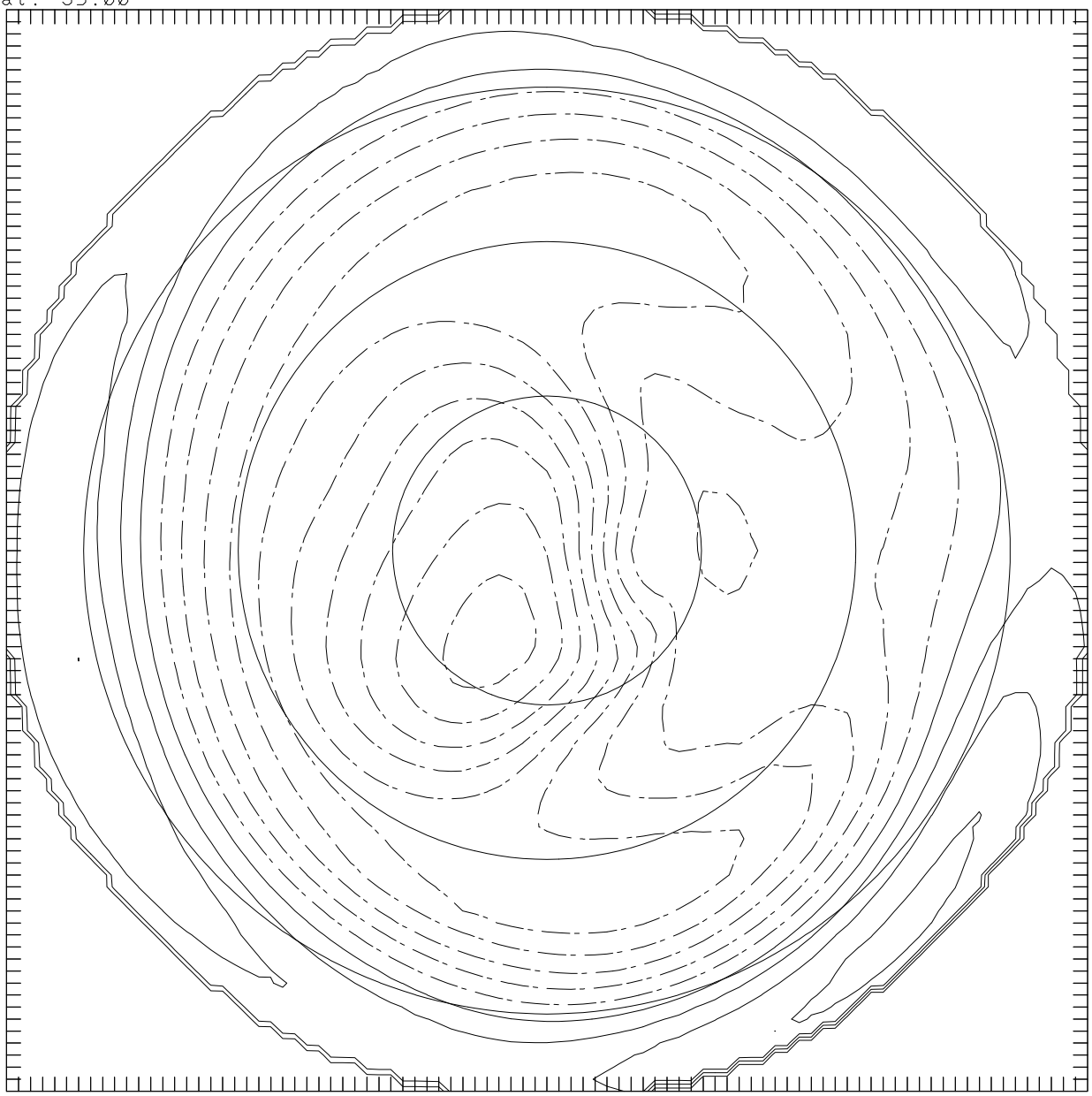
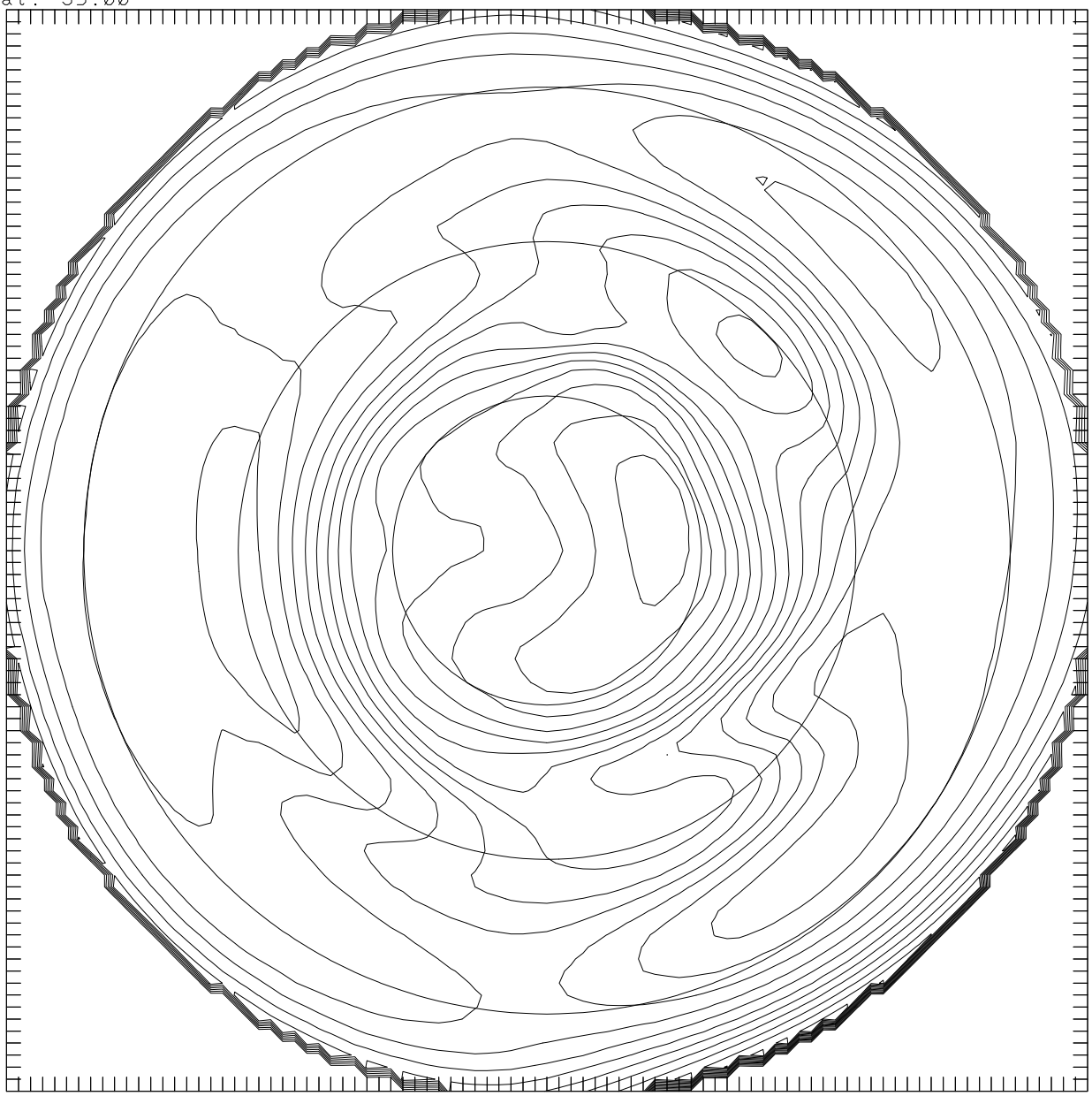


min 0.0000 fmax 0.0375
lat. 35.00

hfluxsth: aurora ut = 1.51



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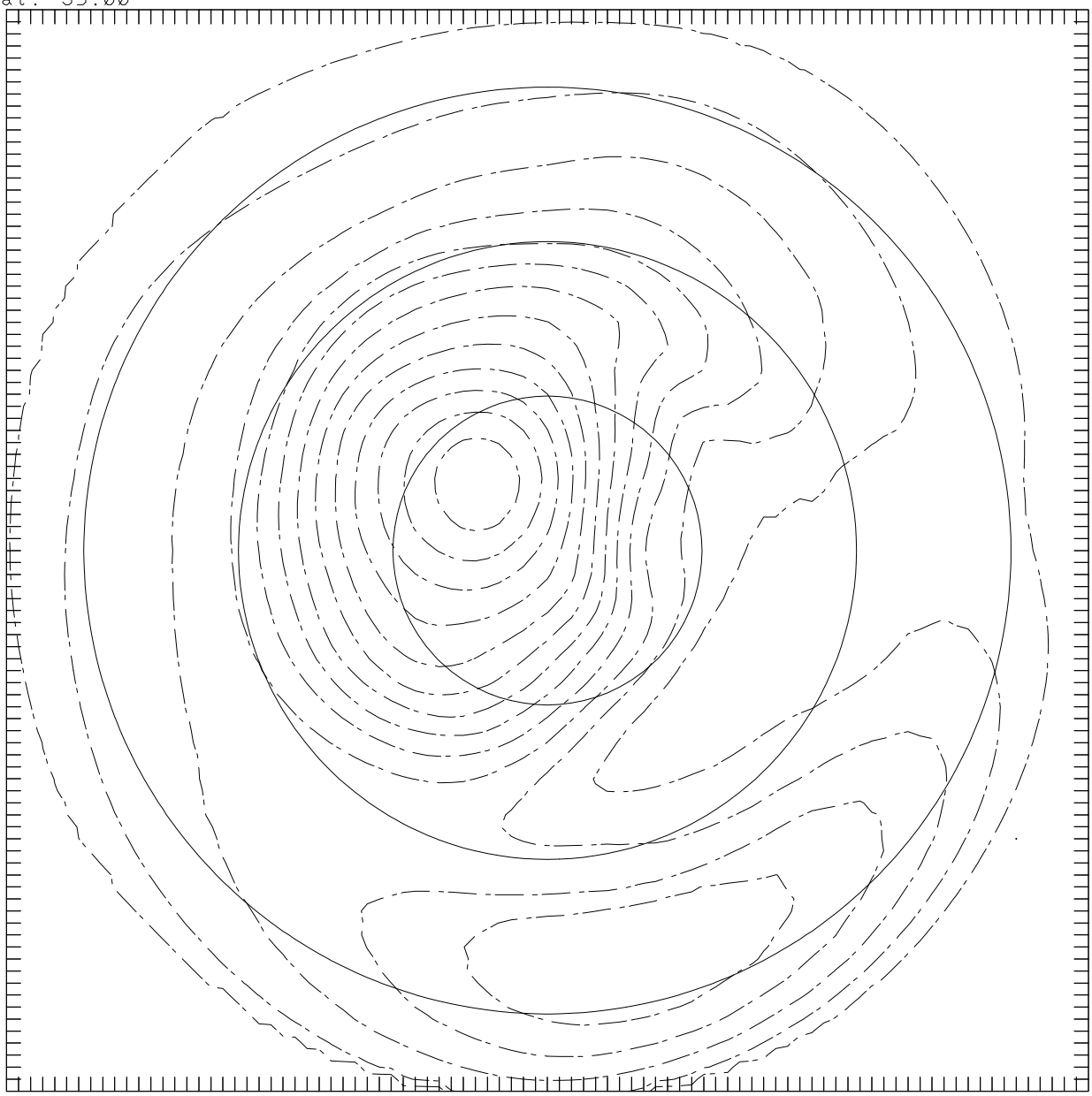
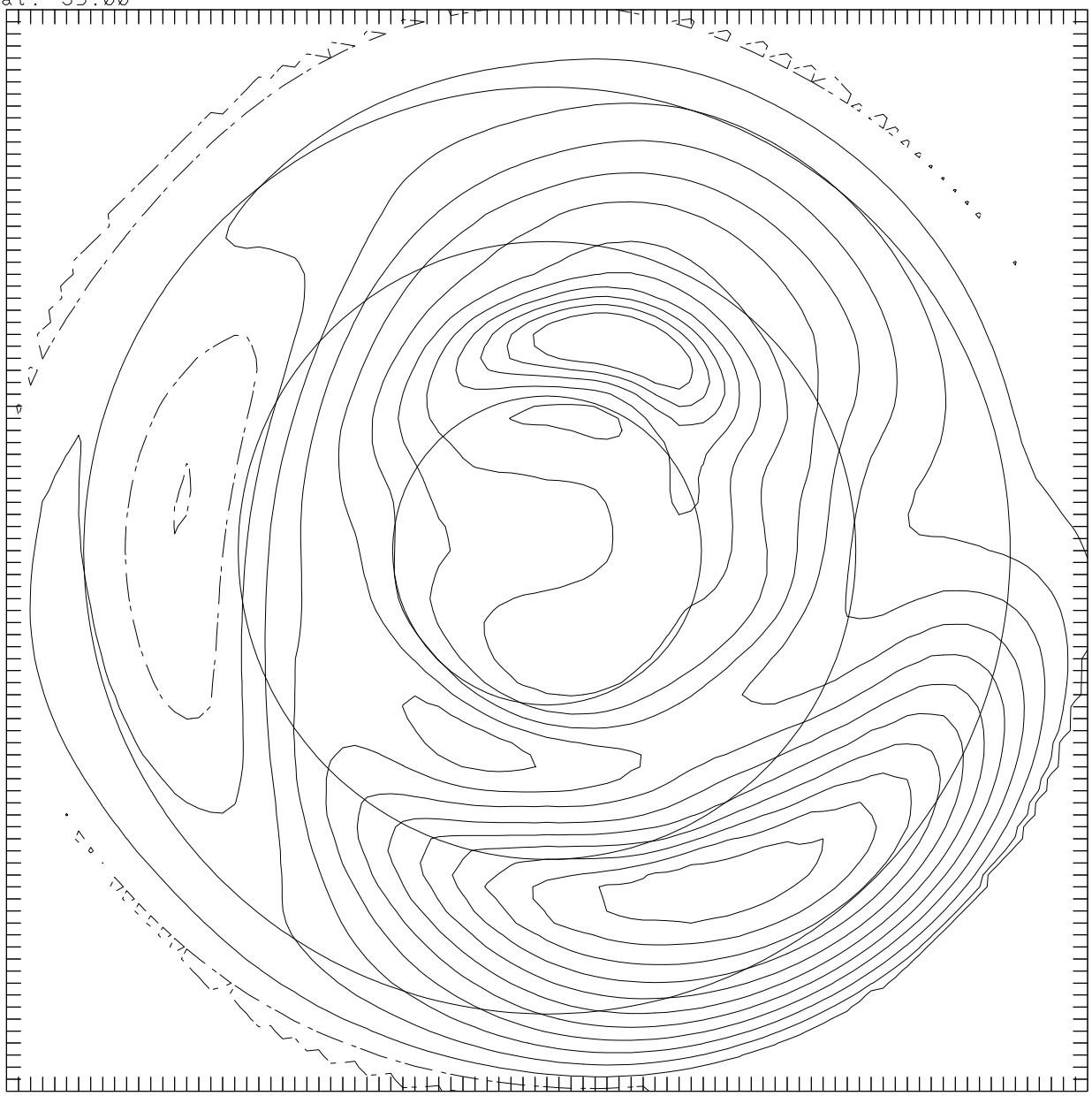
lat. 35.00

ofluxnth: aurora ut = 1.51



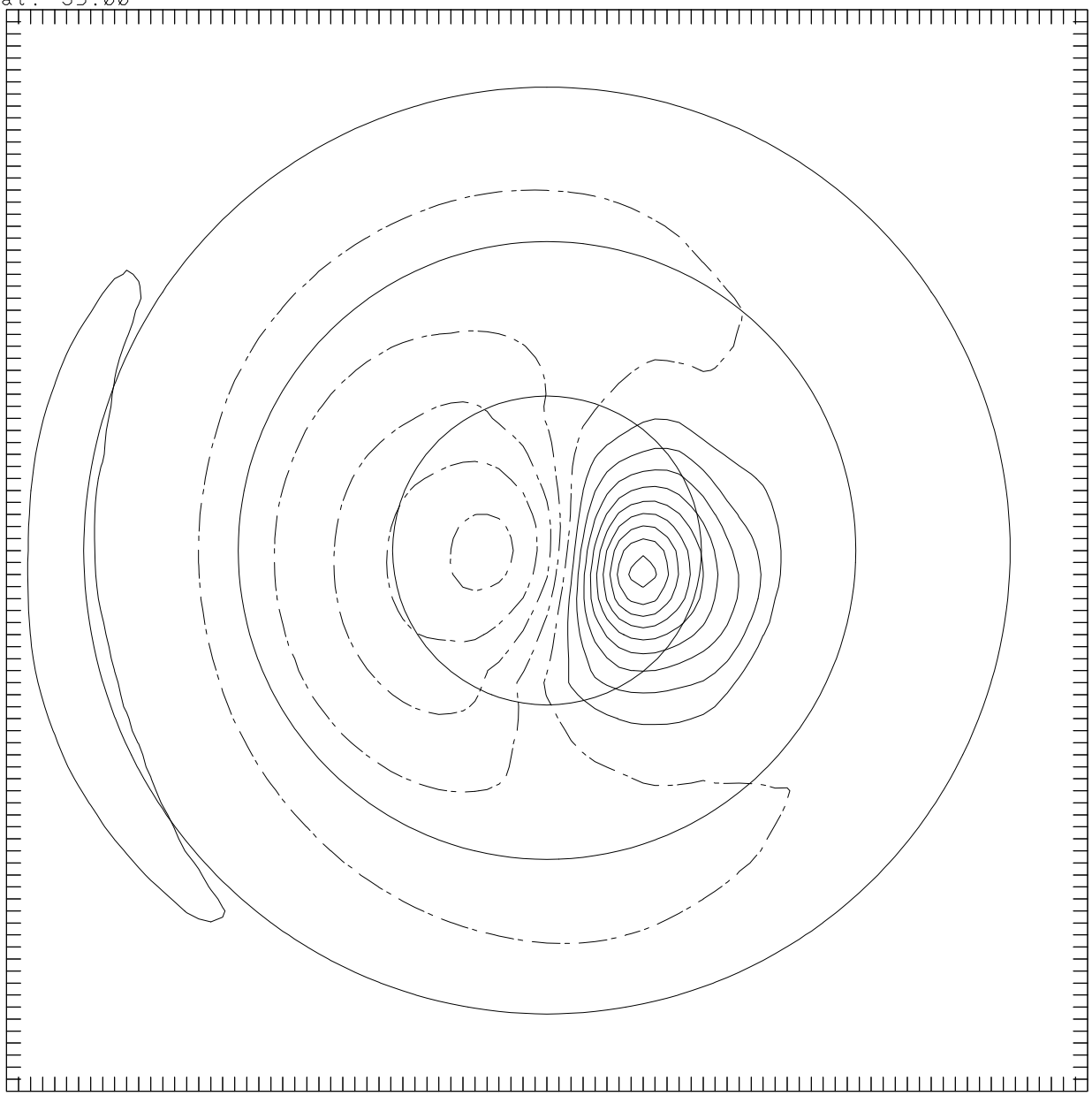
min-0.0048 fmax 0.0403
lat. 35.00

ofluxsth: aurora ut = 1.51



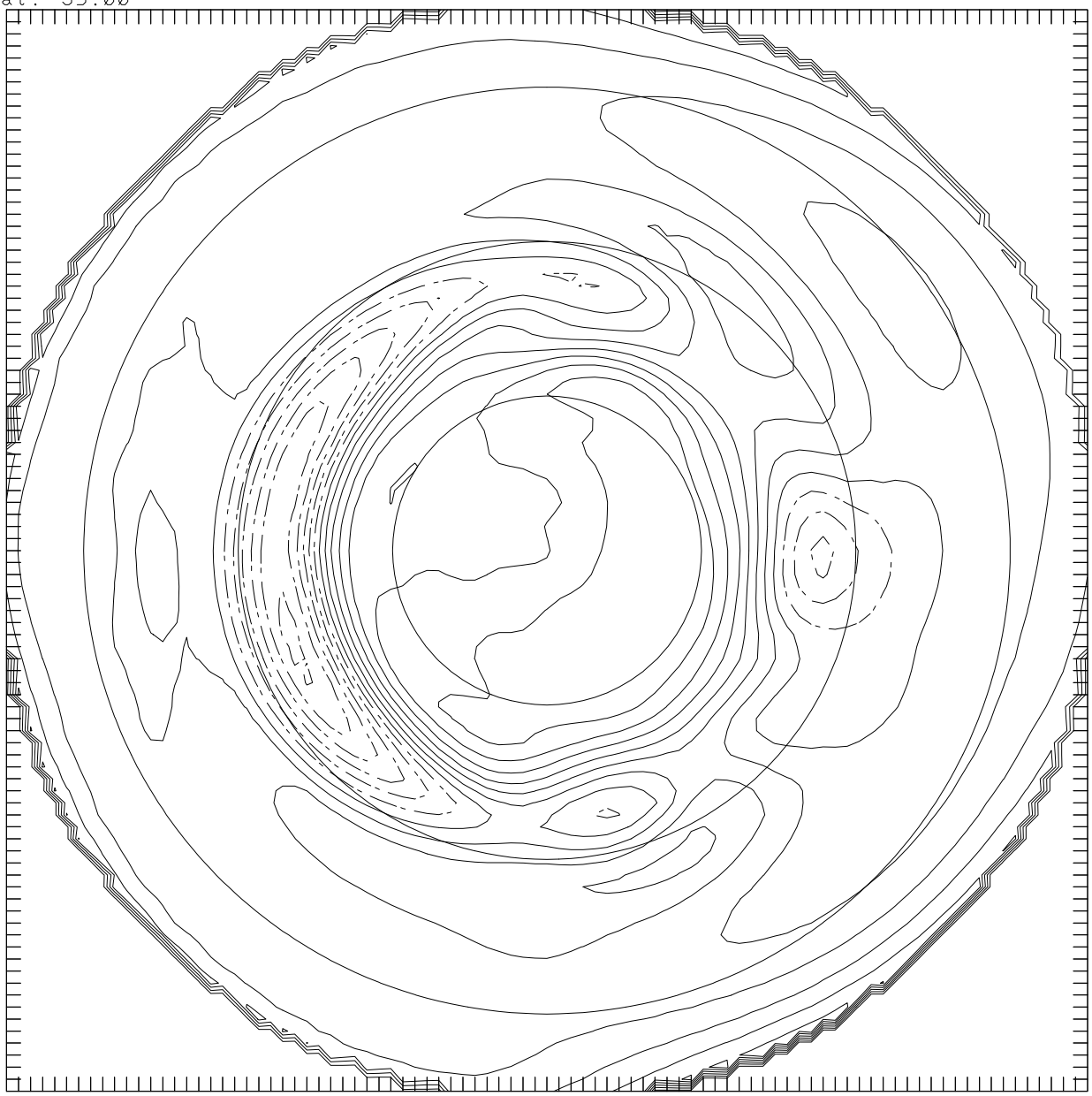
min-0.4888 fmax 0.9346
lat. 35.00

efluxnth: aurora ut = 1.51



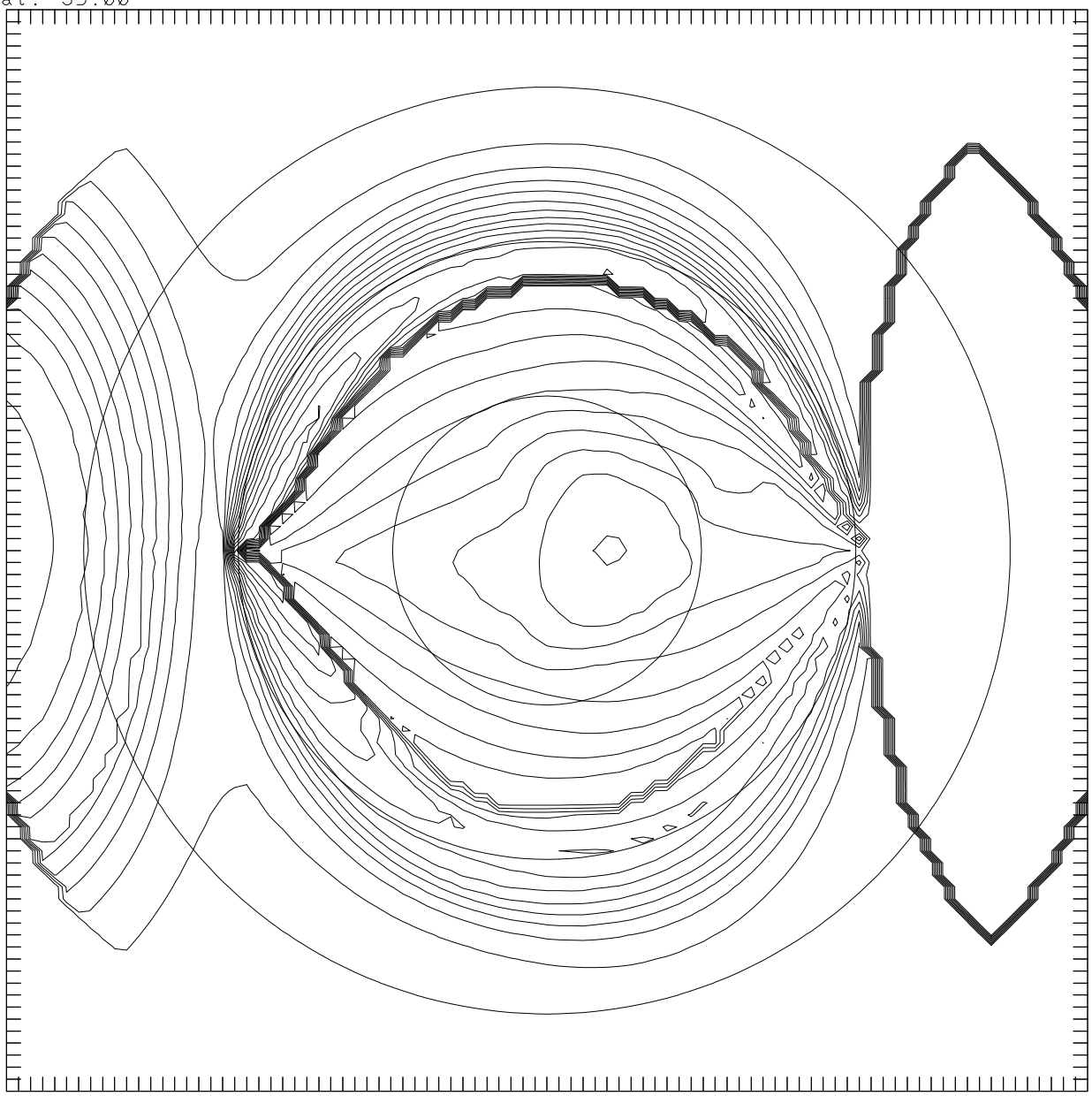
min-0.0339 fmax 0.0461
lat. 35.00

efluxsth: aurora ut = 1.51



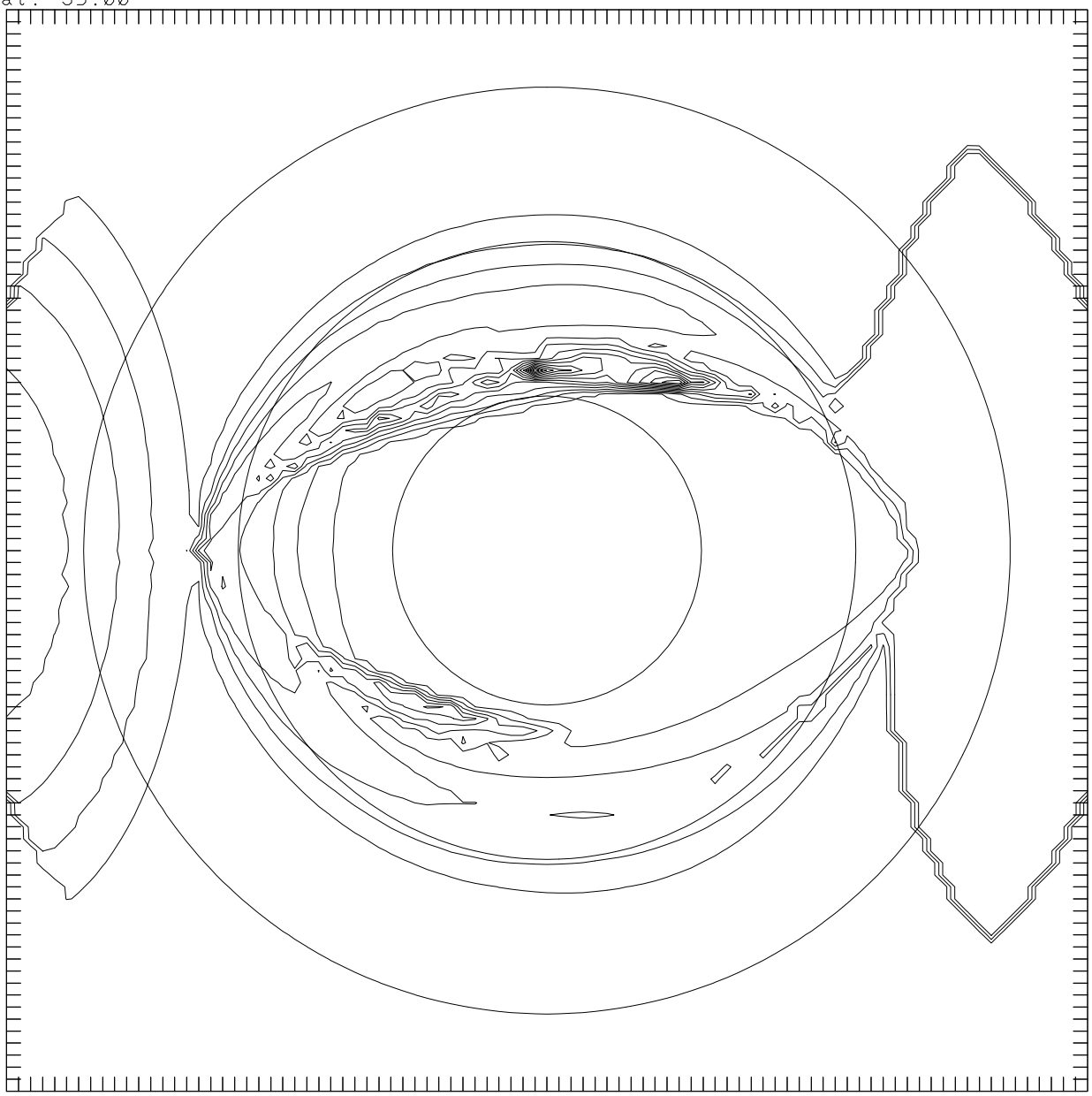
min 0.0000 0.0329
lat. 35.00

itempnth: intensity ut = 1.51



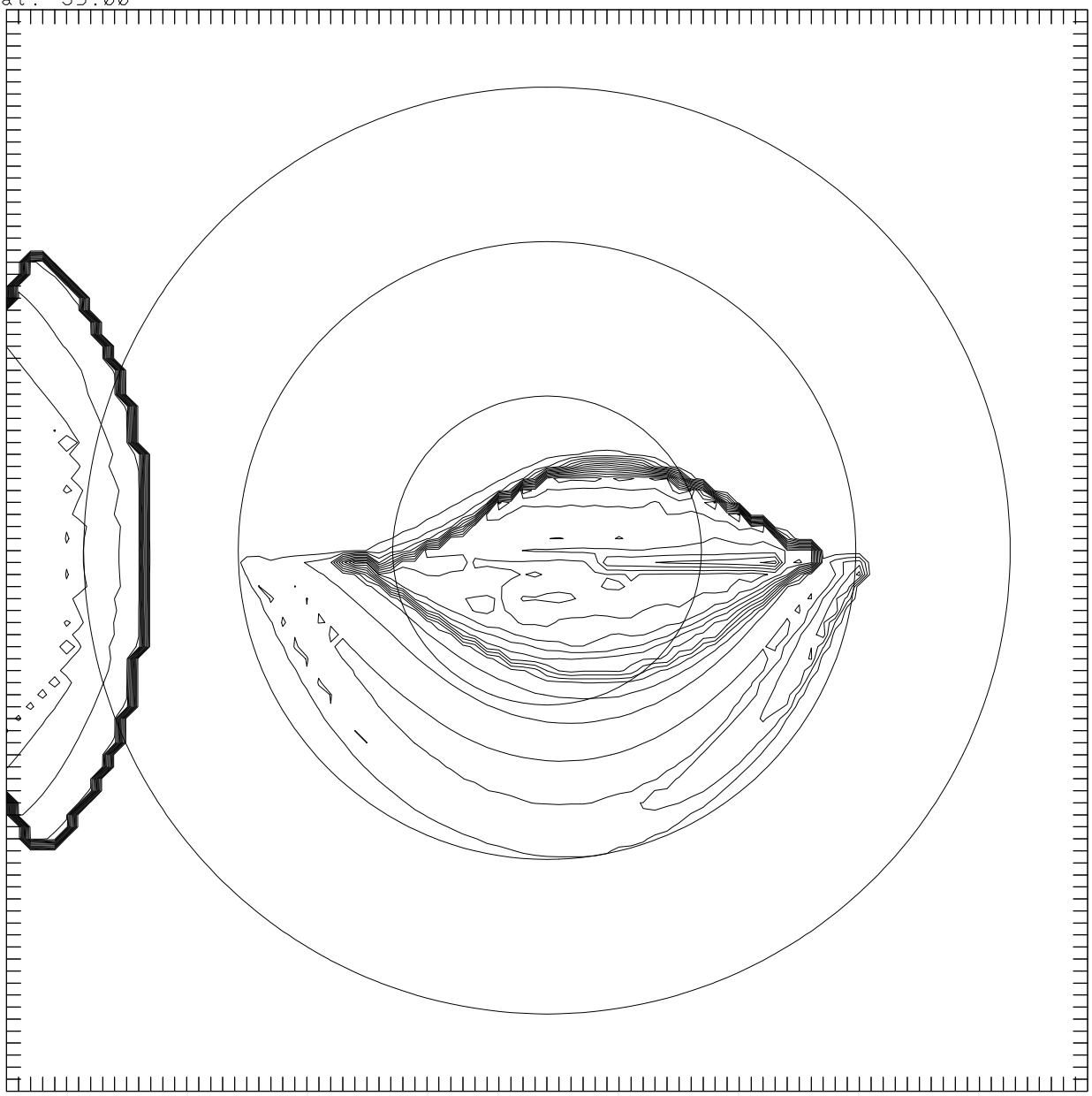
min 0.0000 0.0877
lat. 35.00

itempsth: intensity ut = 1.51



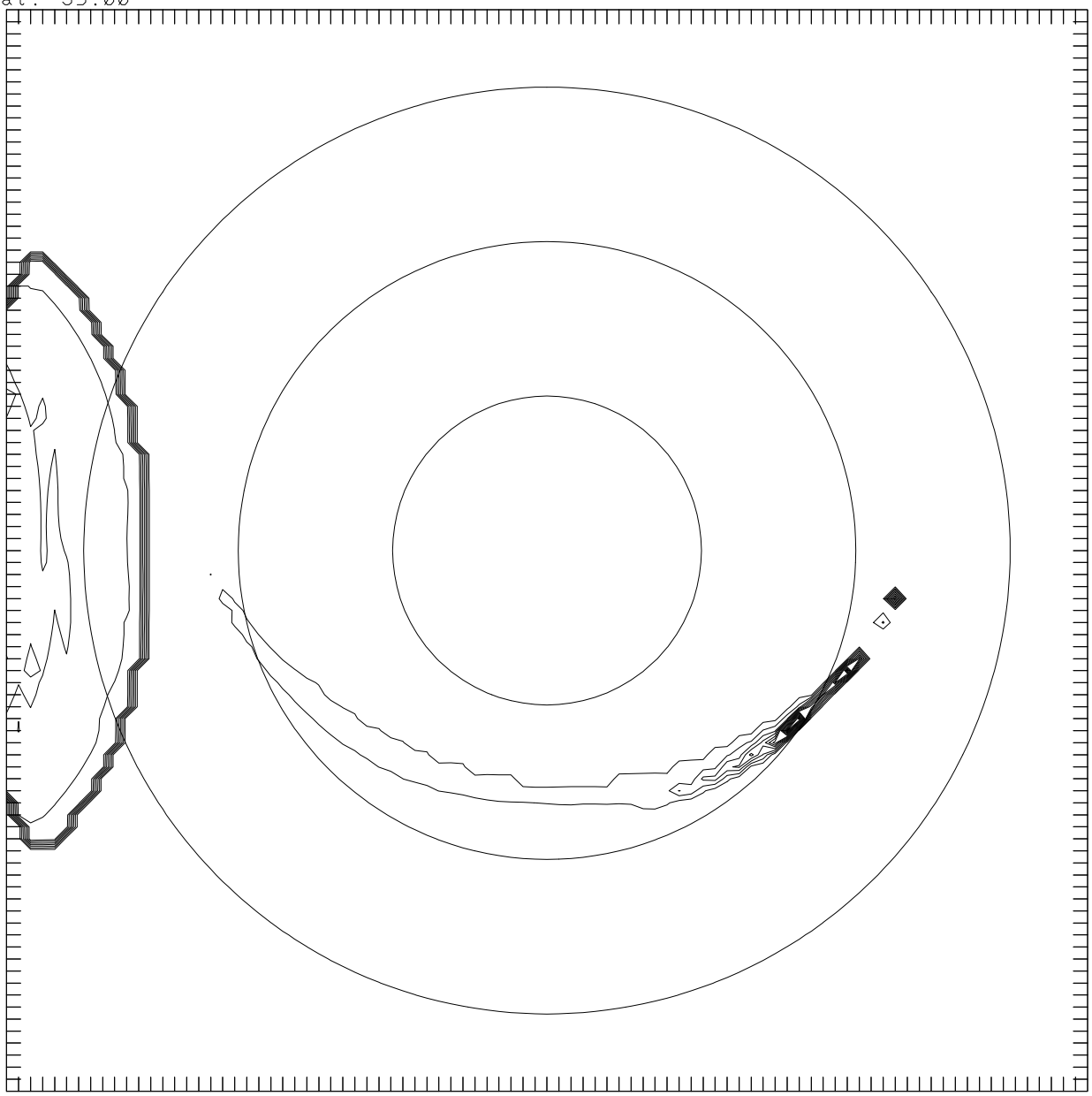
min 0.0000 0.4718
lat. 35.00

otempnth: intensity ut = 1.51



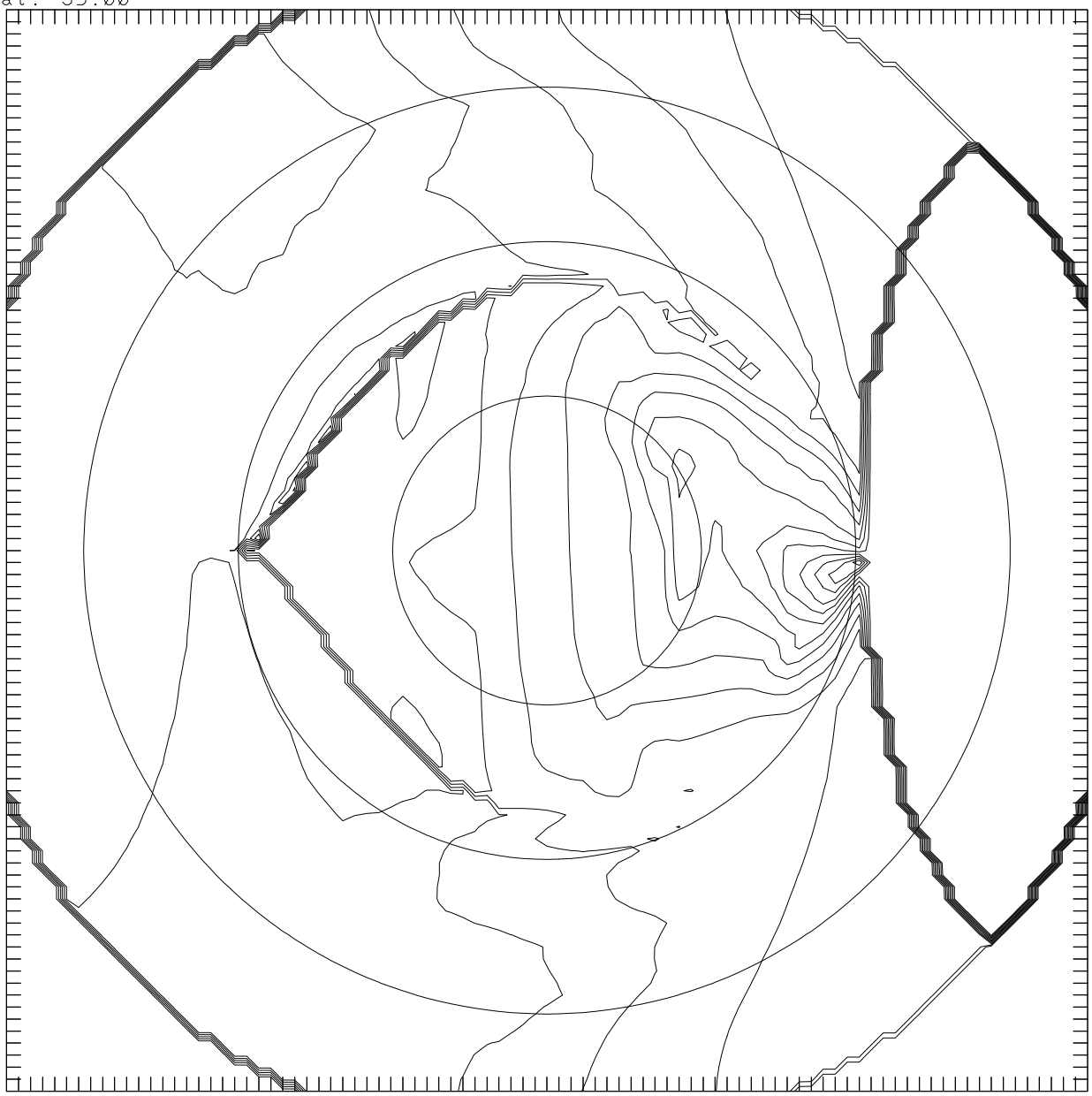
min 0.0000 0.7472
lat. 35.00

otempsth: intensity ut = 1.51



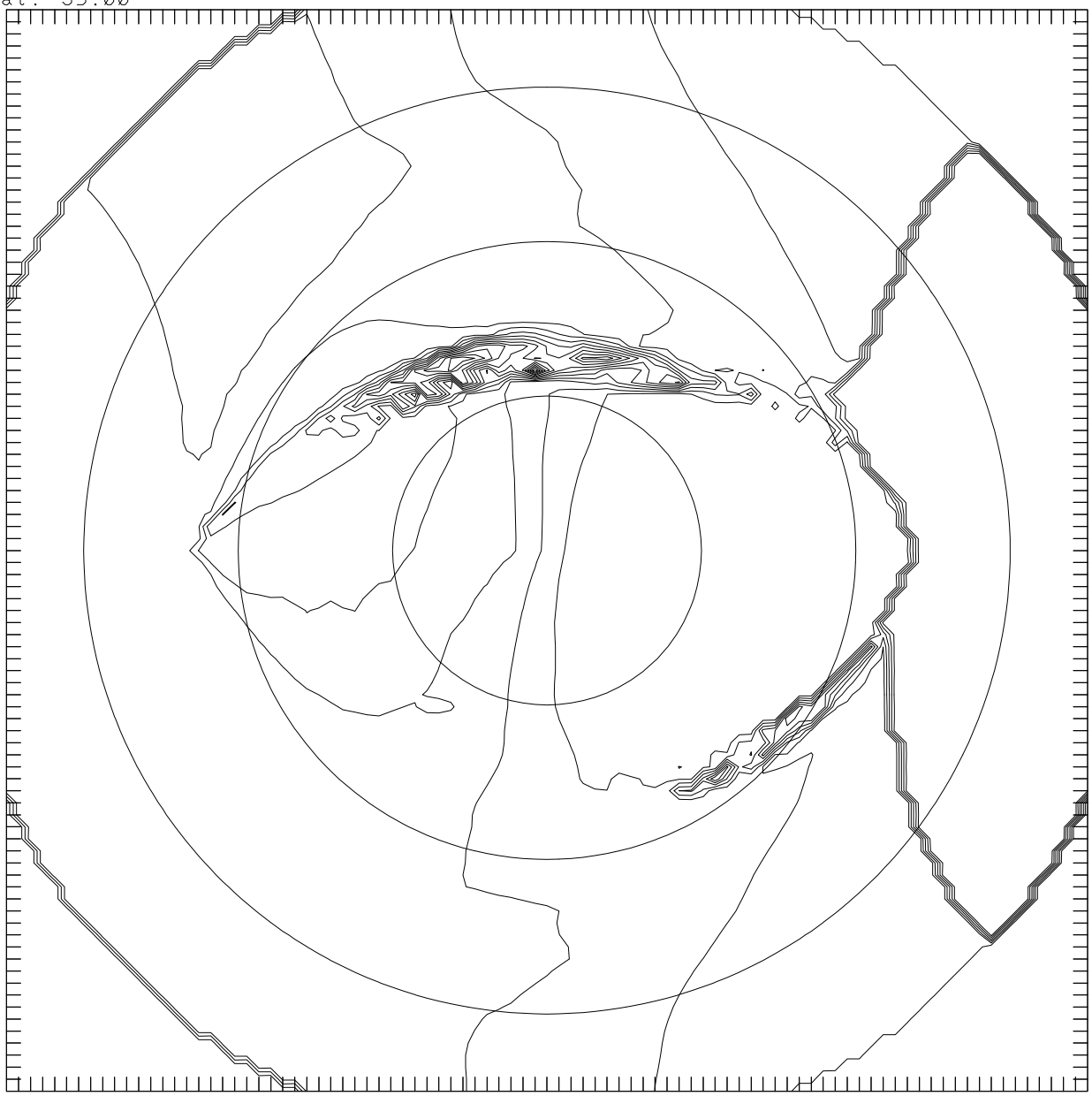
min 0.0000 0.0876
lat. 35.00

qtempnth: intensity ut = 1.51



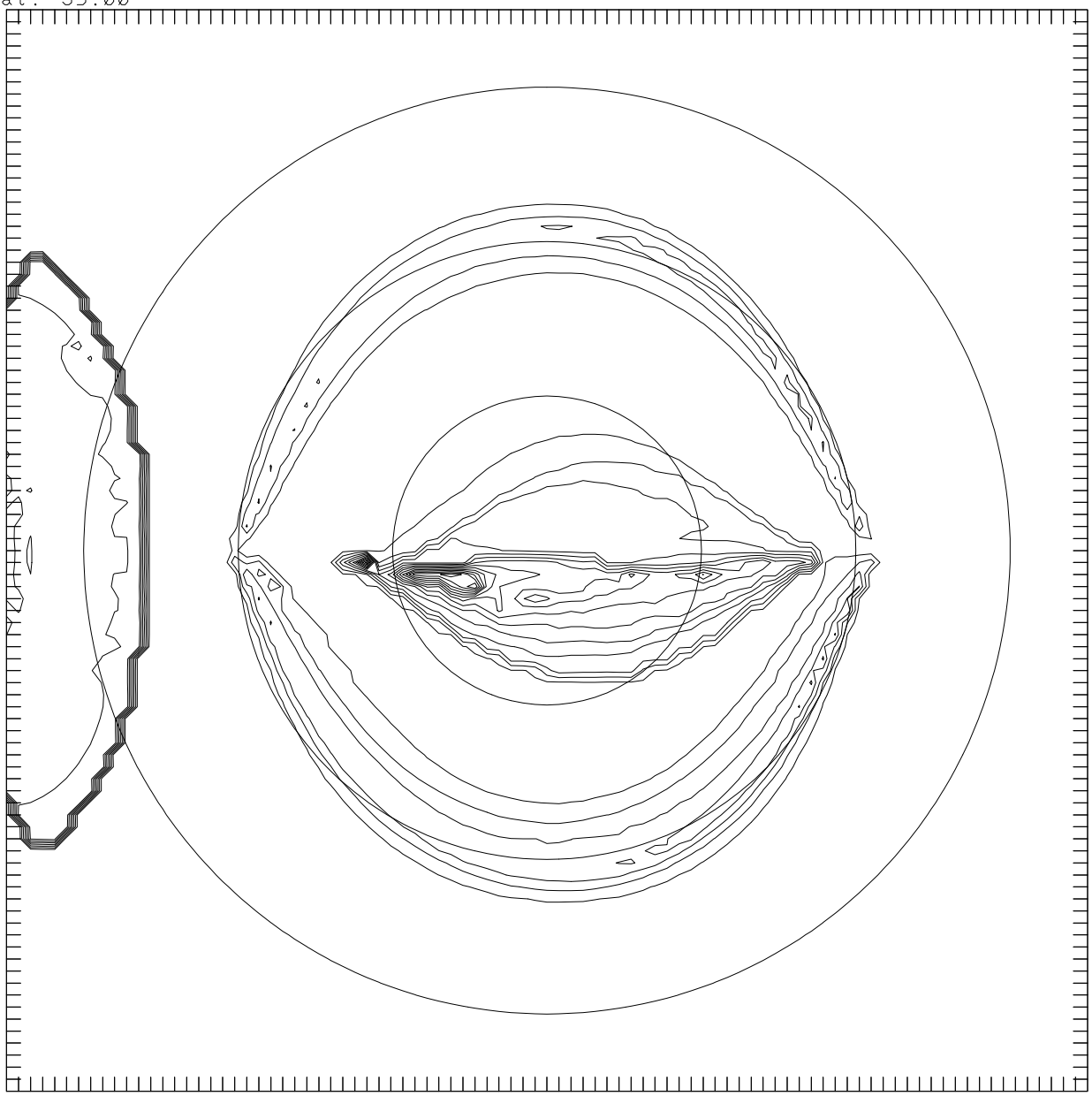
min 0.0000 0.1455
lat. 35.00

qtempsth: intensity ut = 1.51



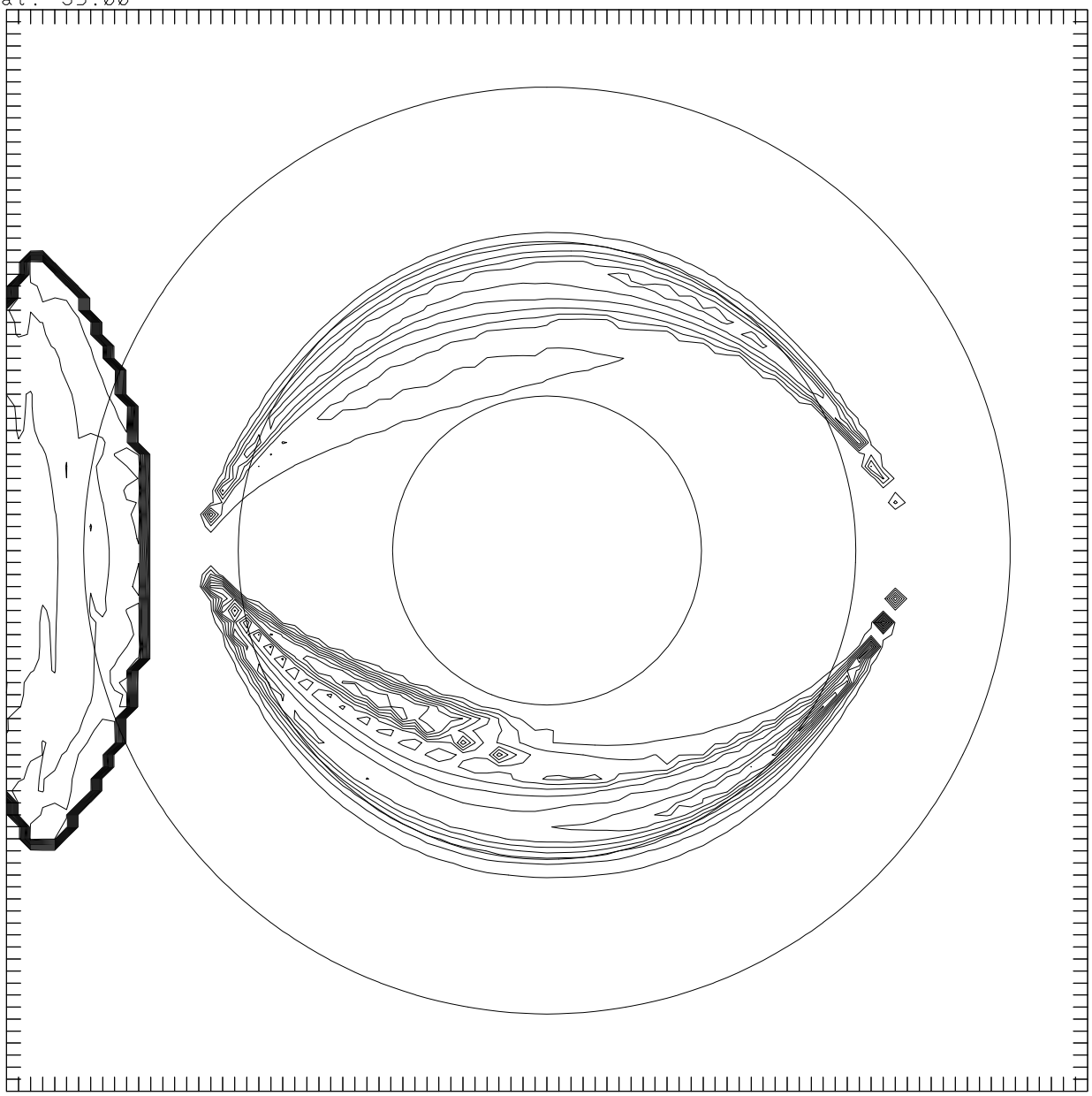
min 0.0000 0.0520
lat. 35.00

htempnth: intensity ut = 1.51



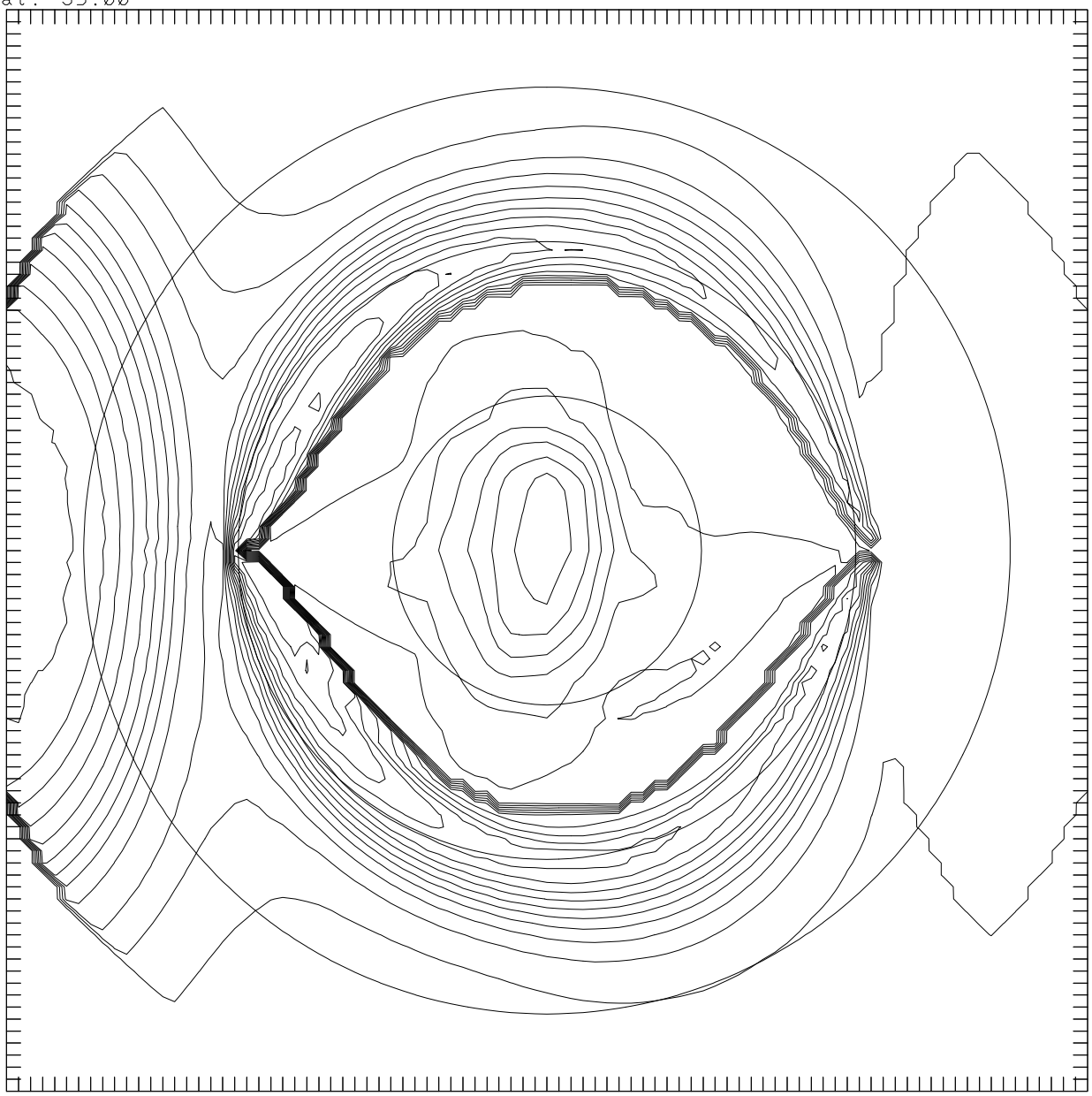
min 0.0000 0.0272
lat. 35.00

htempsth: intensity ut = 1.51



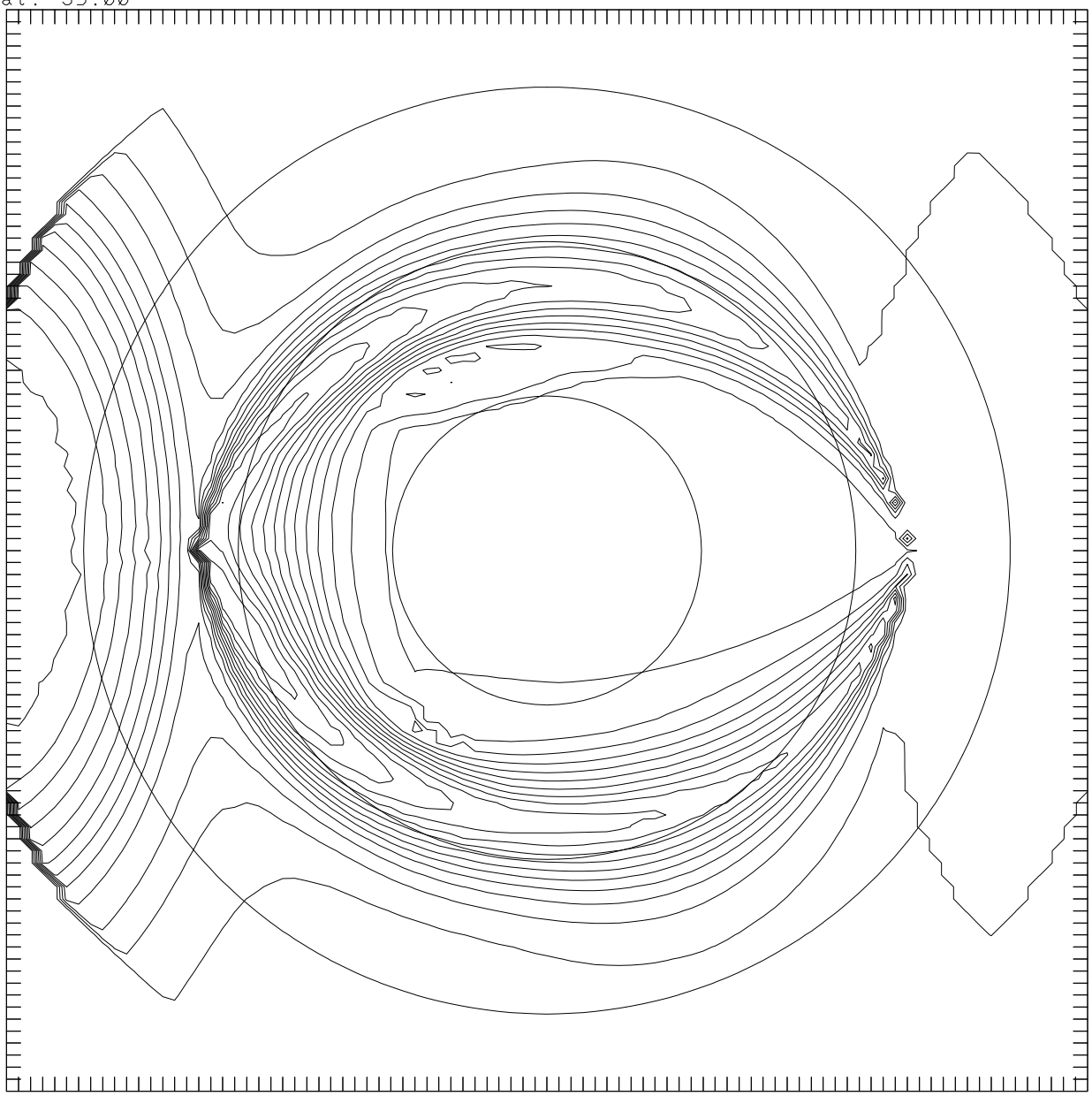
min 0.0000 0.0077
lat. 35.00

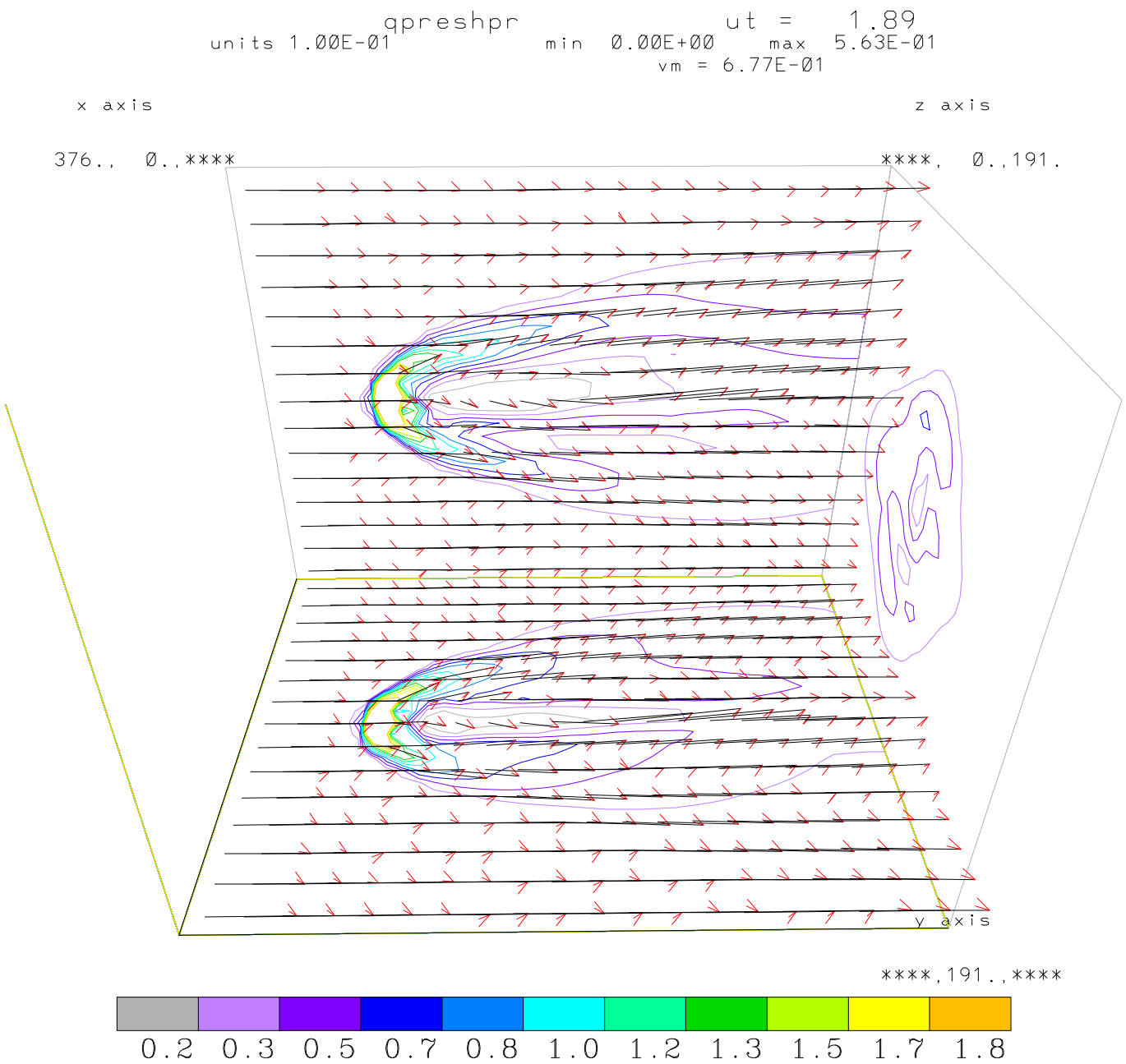
etempnth: intensity ut = 1.51

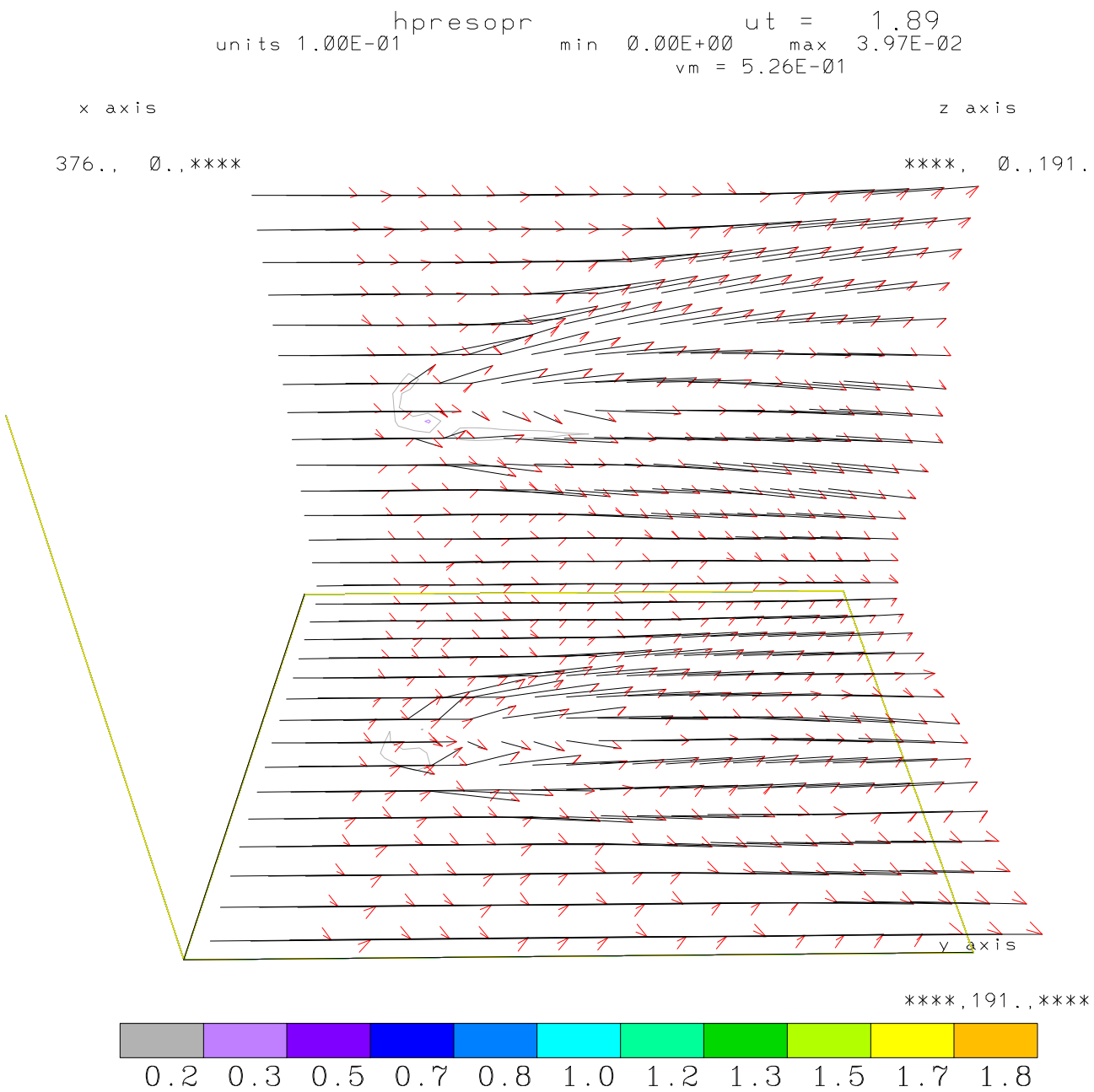


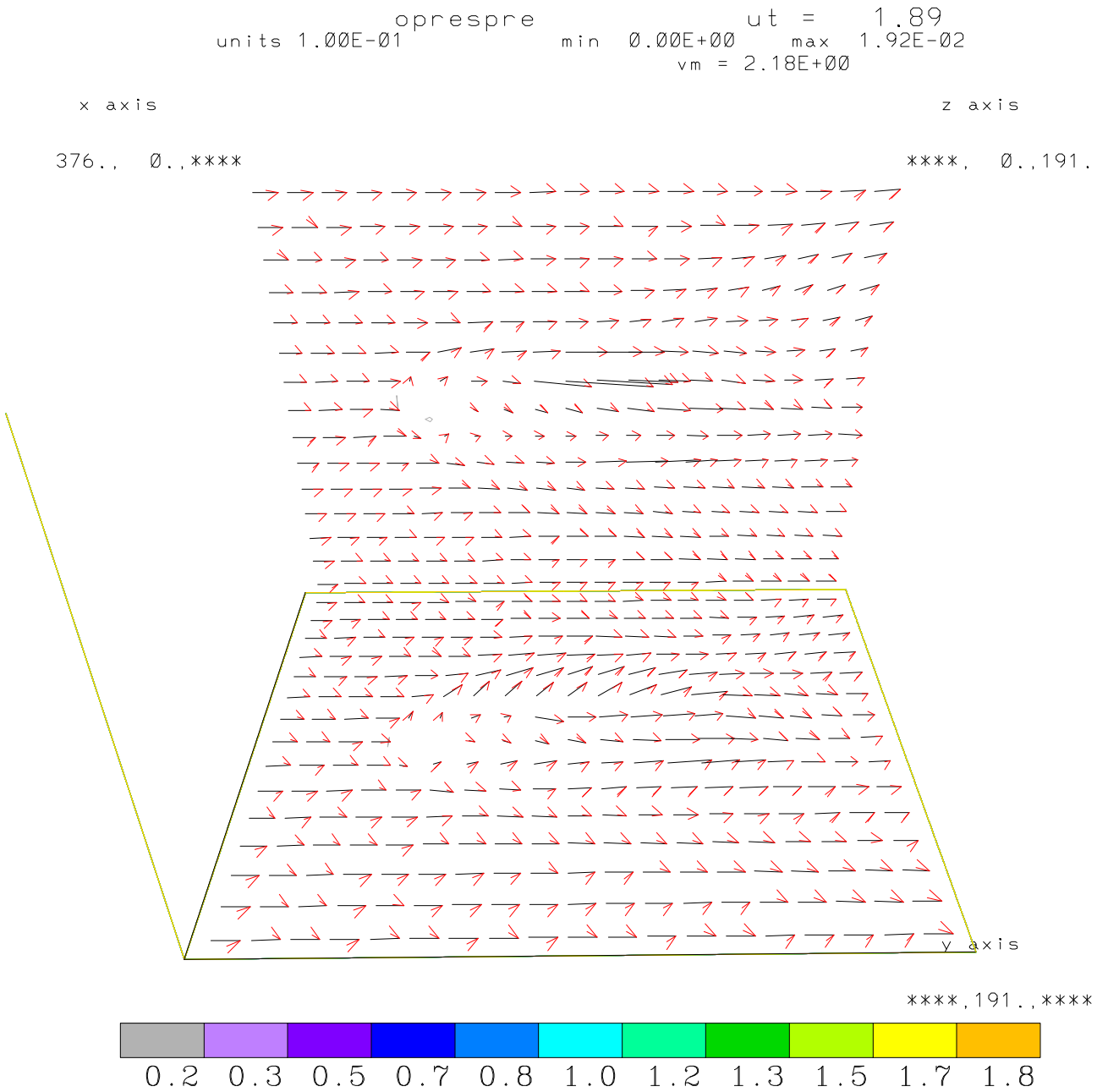
min 0.0000 0.0076
lat. 35.00

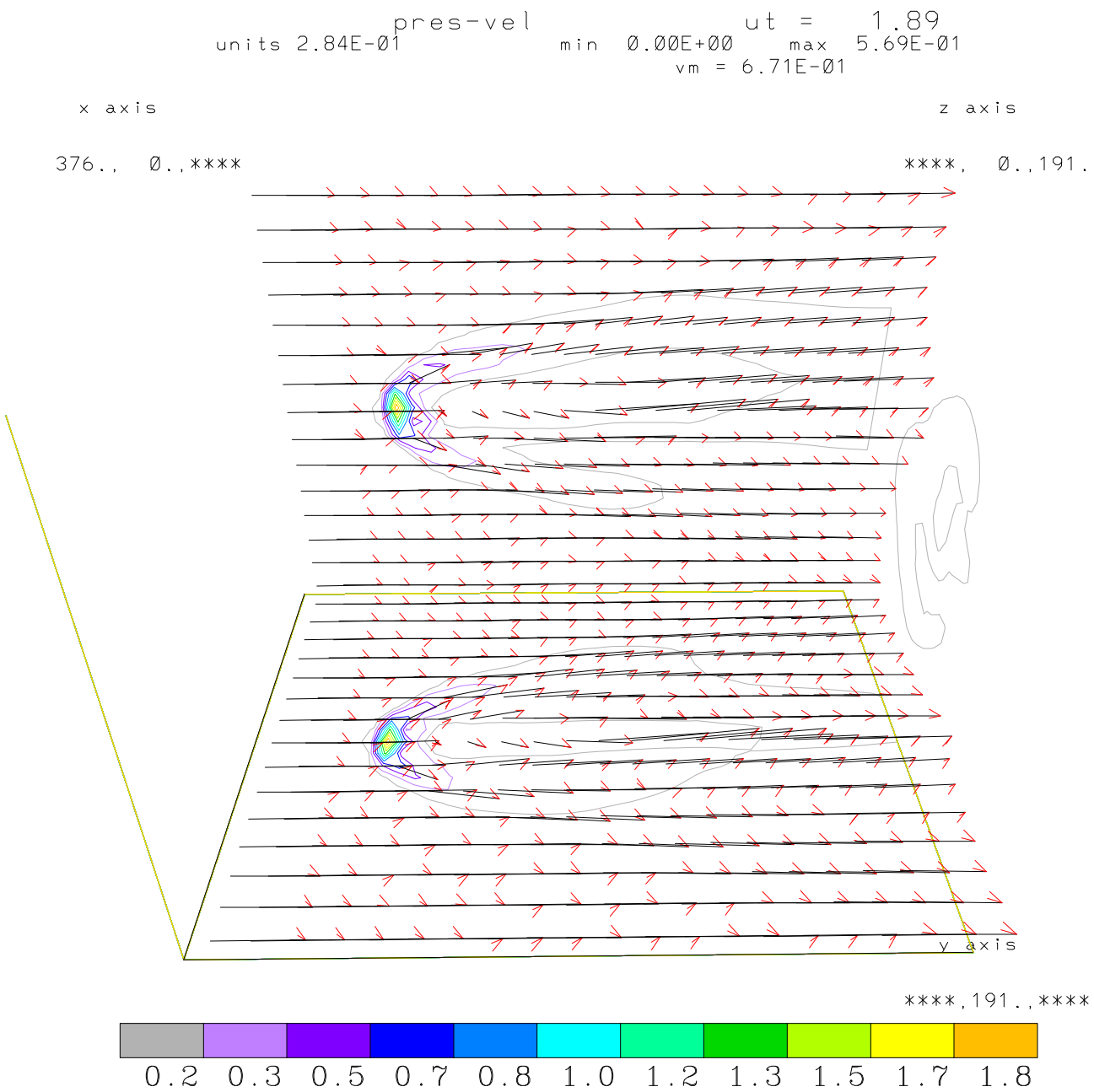
etempsth: intensity ut = 1.51

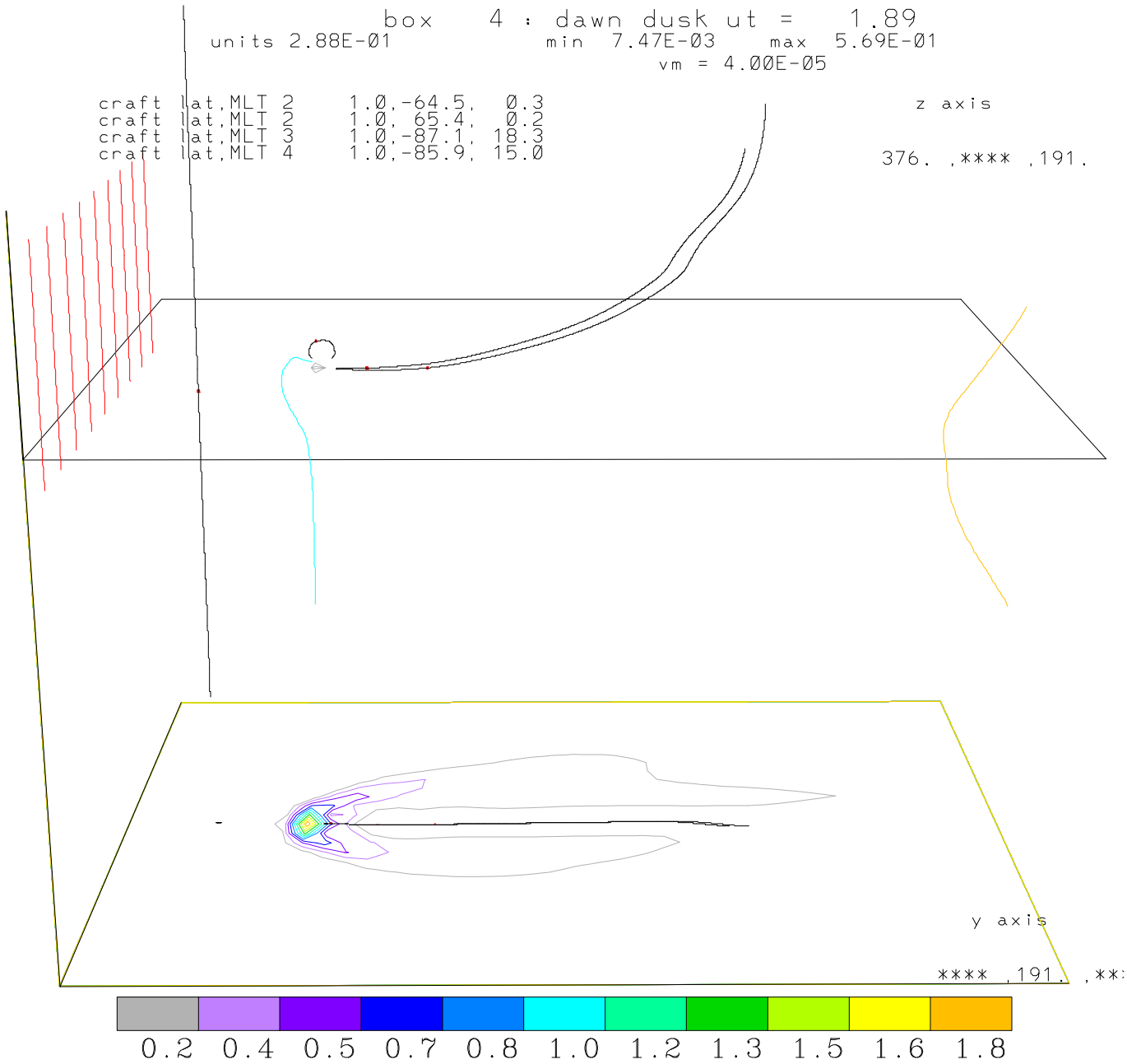



qpreshpr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 5.63E-01
vm = 6.77E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 3.97E-02
vm = 5.26E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.89
units 1.00E-01
min 0.00E+00
max 1.92E-02
vm = 2.18E+00
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.89
units 2.84E-01
min 0.00E+00
max 5.69E-01
vm = 6.71E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 4 : dawn dusk ut = 1.89
units 2.88E-01
min 7.47E-03 max 5.69E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-64.5, 0.3
craft lat,MLT 2 1.0, 65.4, 0.2
craft lat,MLT 3 1.0,-87.1, 18.3
craft lat,MLT 4 1.0,-85.9, 15.0
z axis
376. ,**** ,191.
y axis
**** ,191. ,**:
0.2 0.4 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.6 1.8

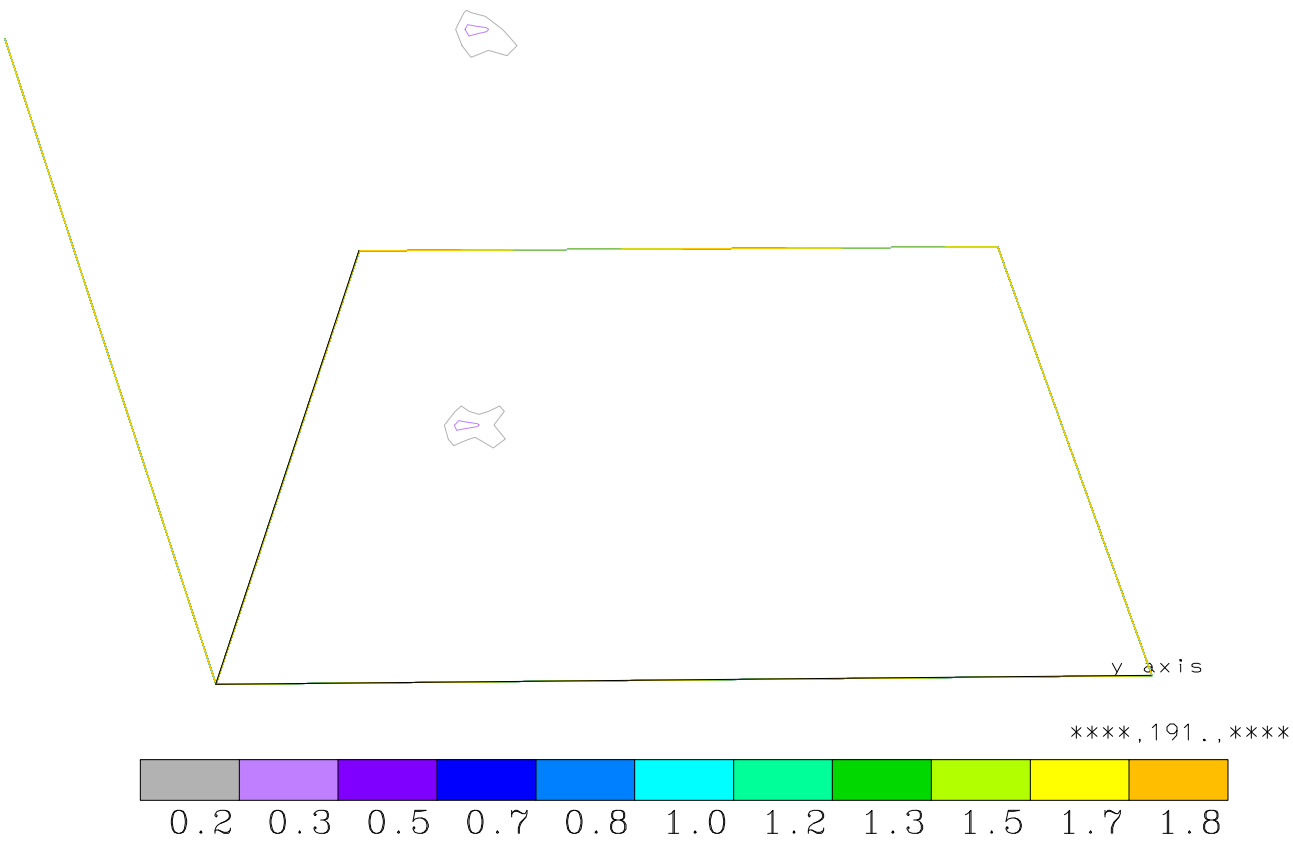
epresq t ut = 1.89

units 2.00E-01 min 0.00E+00 max 7.83E-02

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



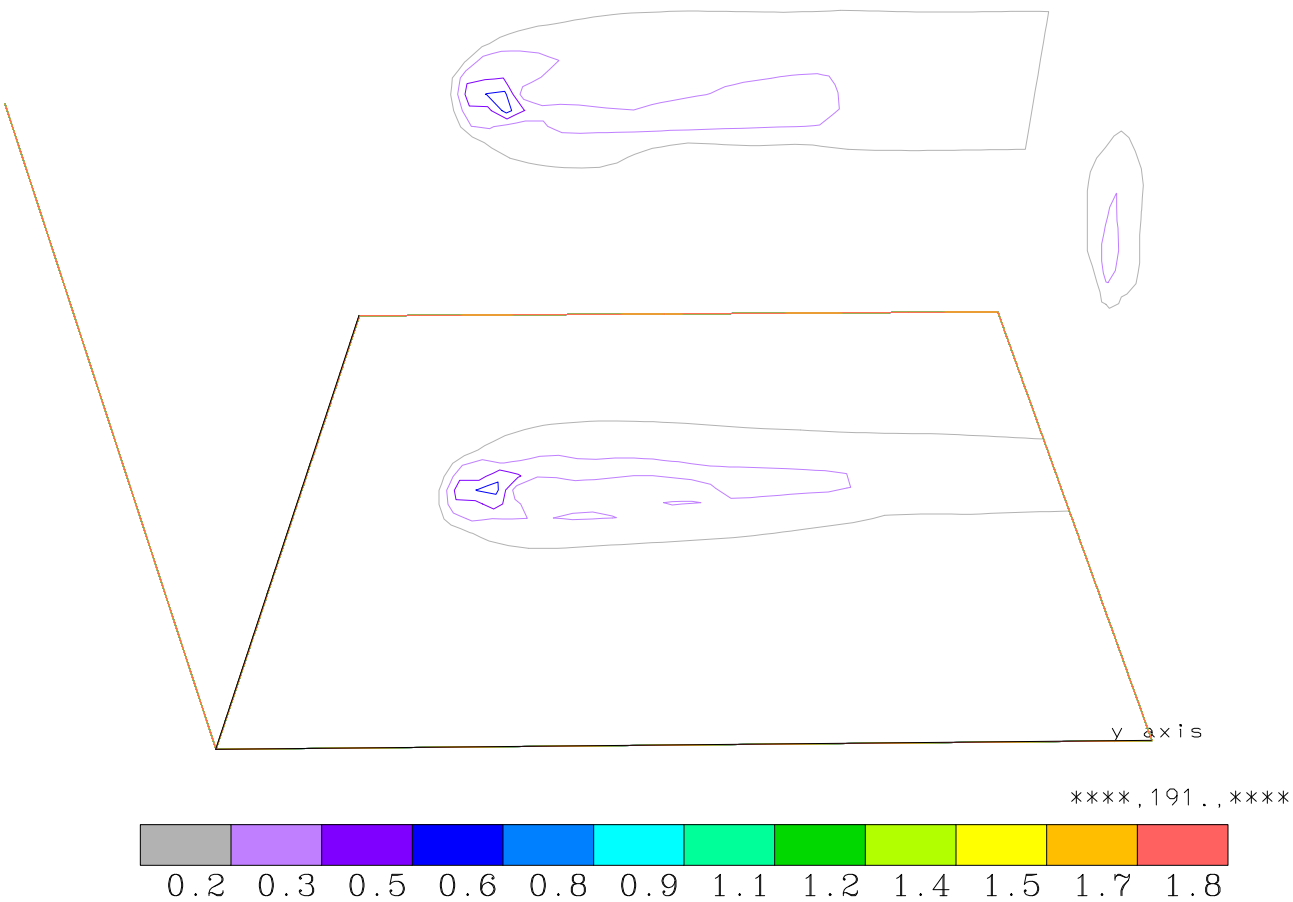
q temph ut = 1.89

units 2.50E-01 min 0.00E+00 max 1.69E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.



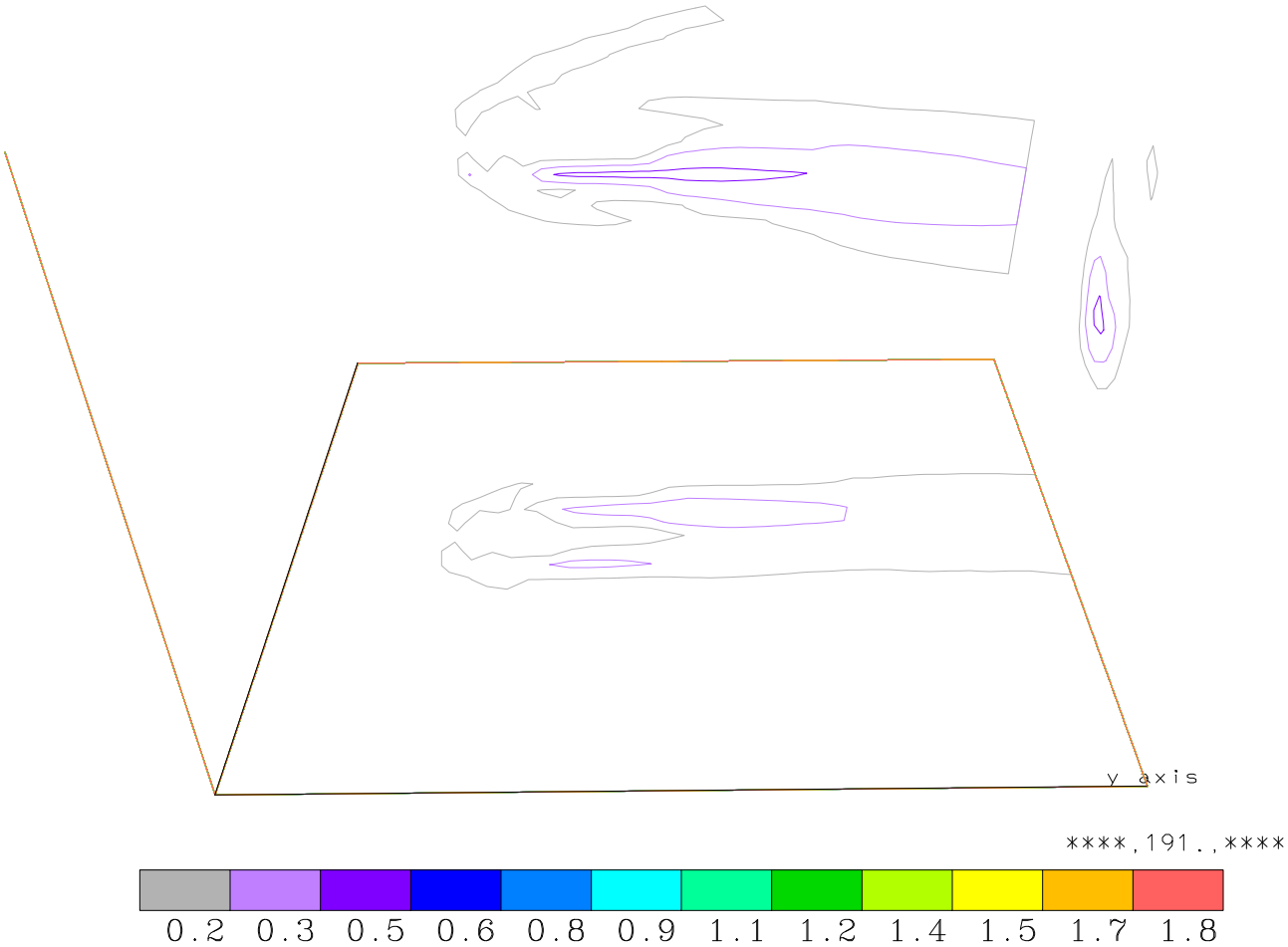
h tempo ut = 1.89

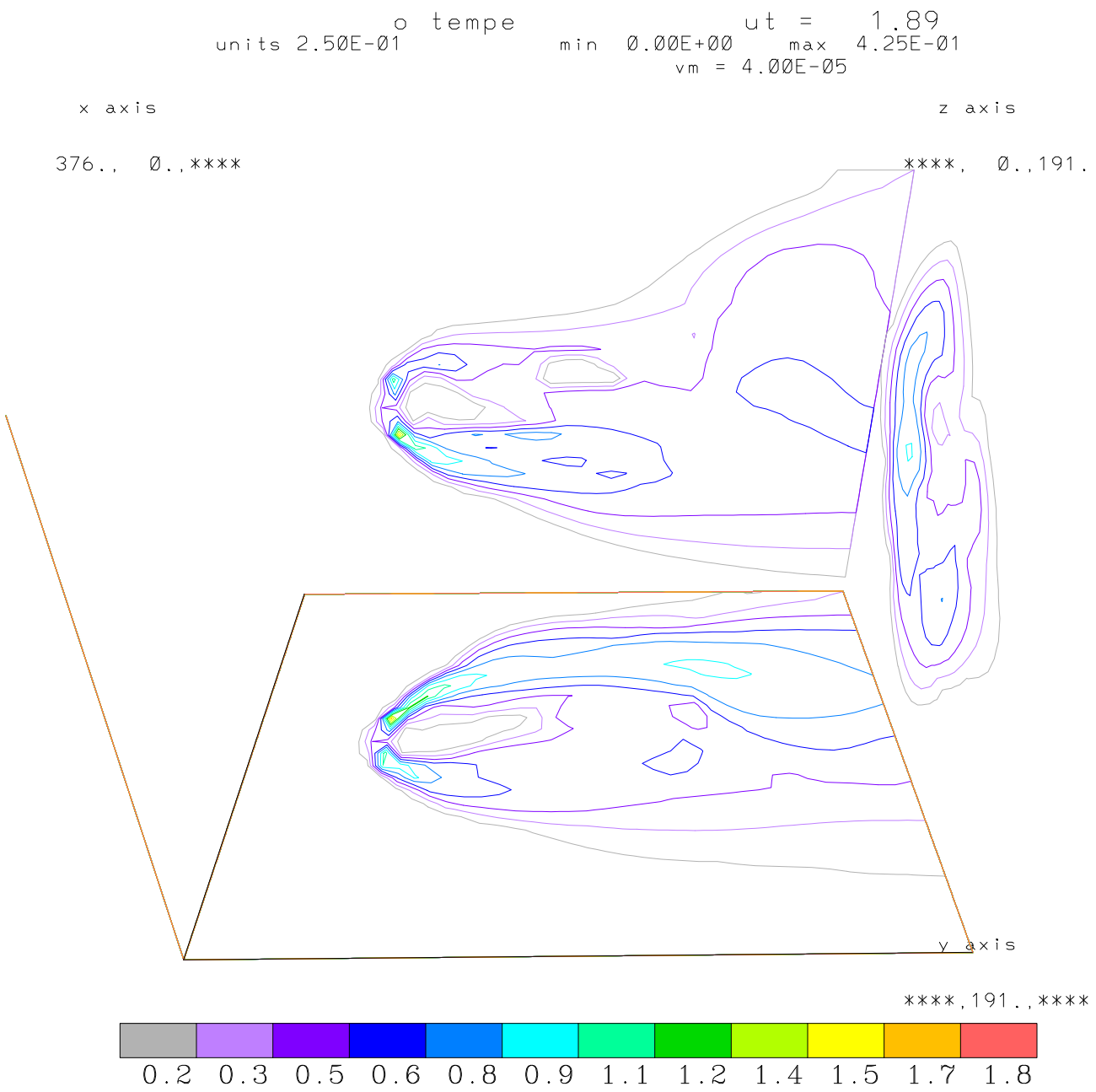
units 2.50E-01 min 0.00E+00 max 1.34E-01

vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




o tempe
ut = 1.89
units 2.50E-01
min 0.00E+00
max 4.25E-01
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

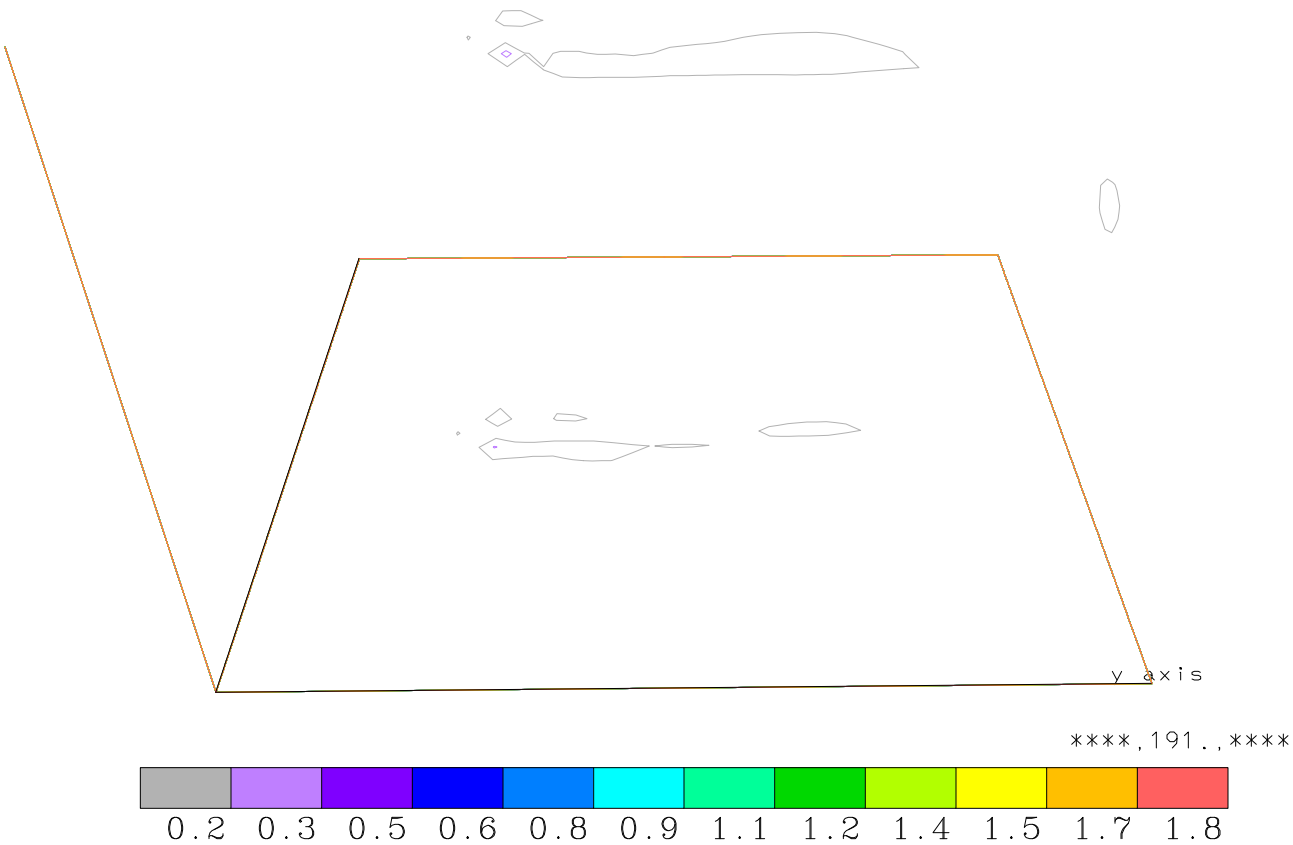
e tempq ut = 1.89

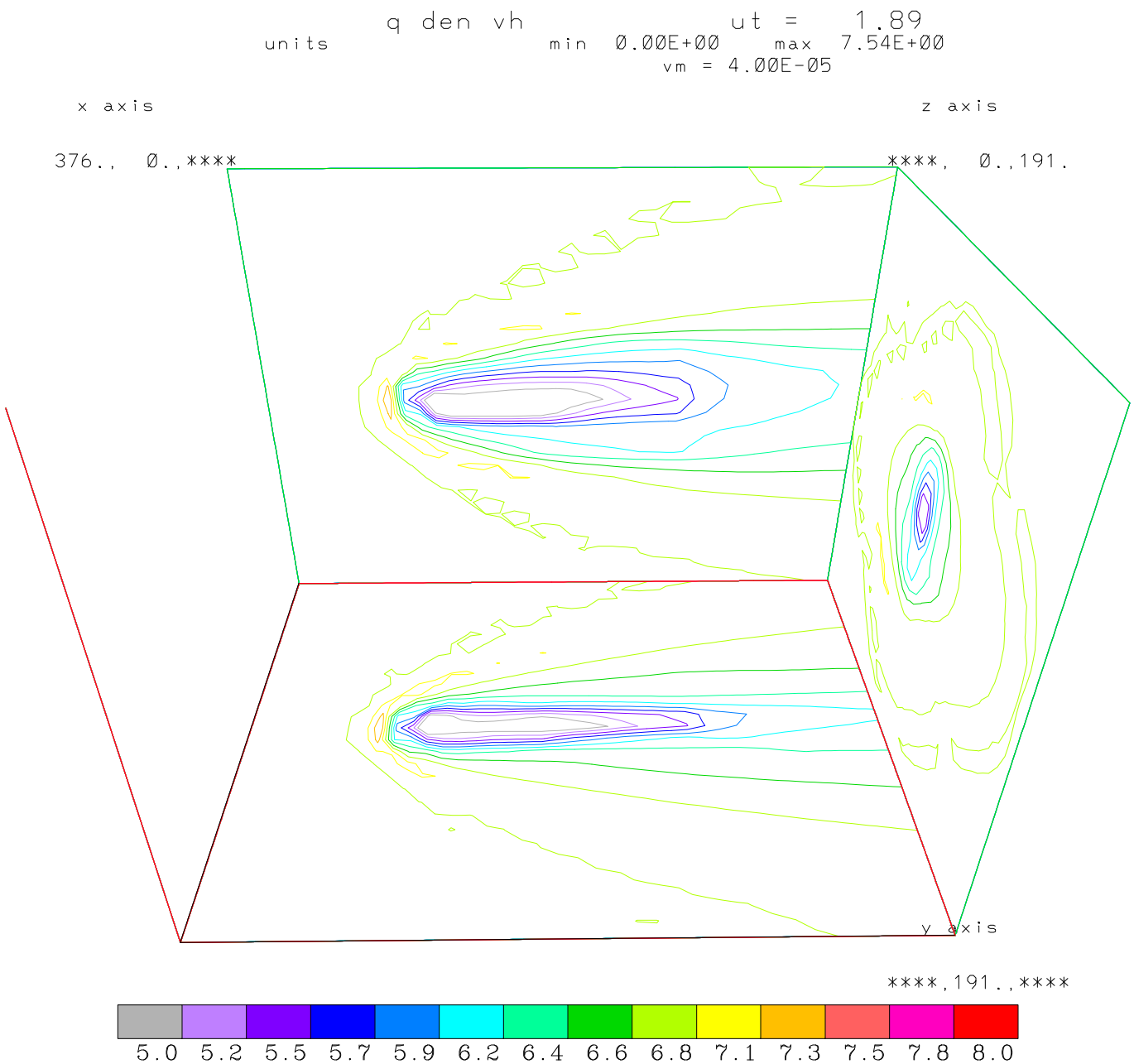
units 1.12E-01 min 0.00E+00 max 4.09E-02

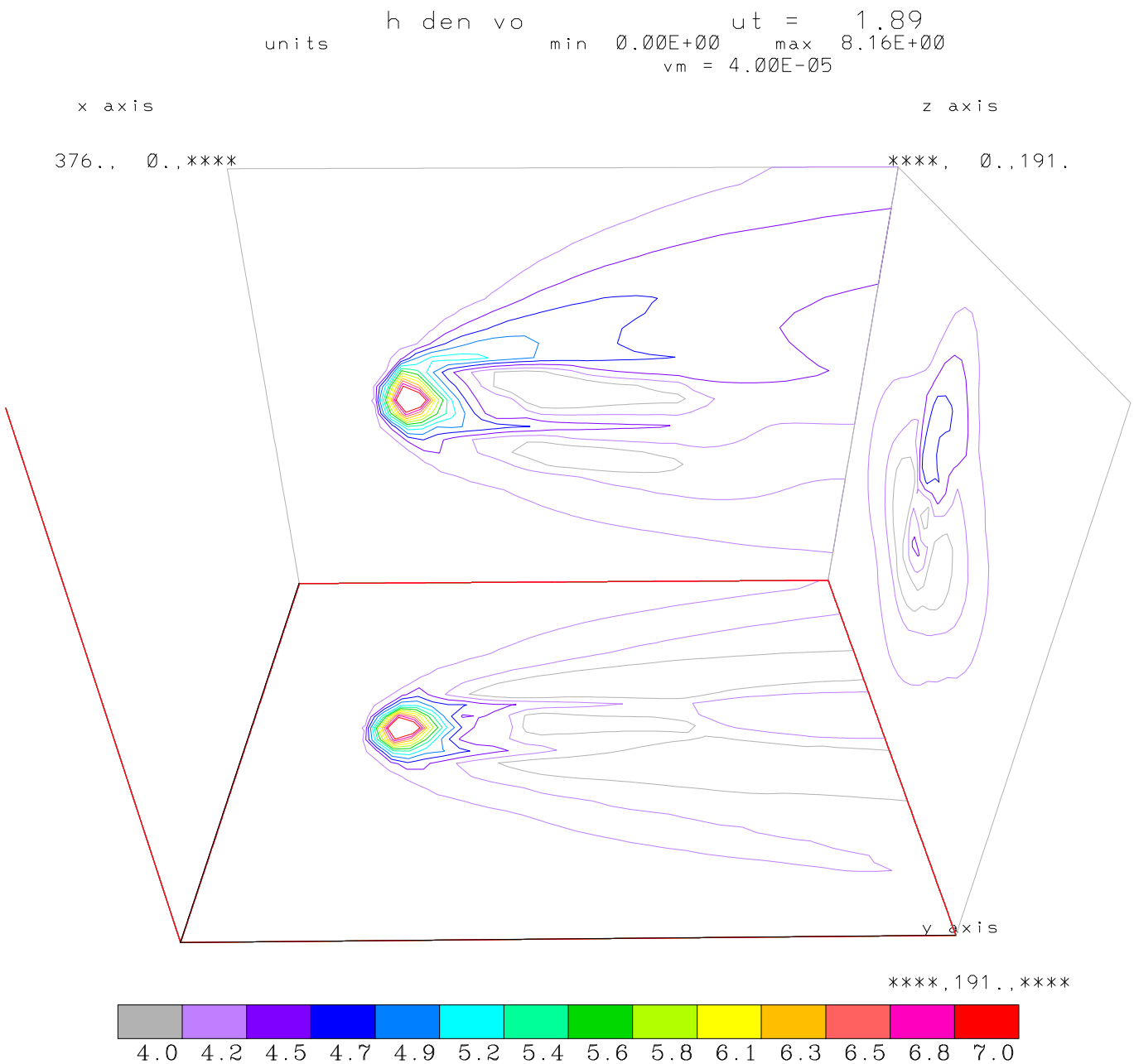
vm = 4.00E-05

x axis z axis

376., 0.,**** ****, 0.,191.




q den vh
ut = 1.89
units
min 0.00E+00
max 7.54E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 1.89
units min 0.00E+00 max 8.16E+00
vm = 4.00E-05
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

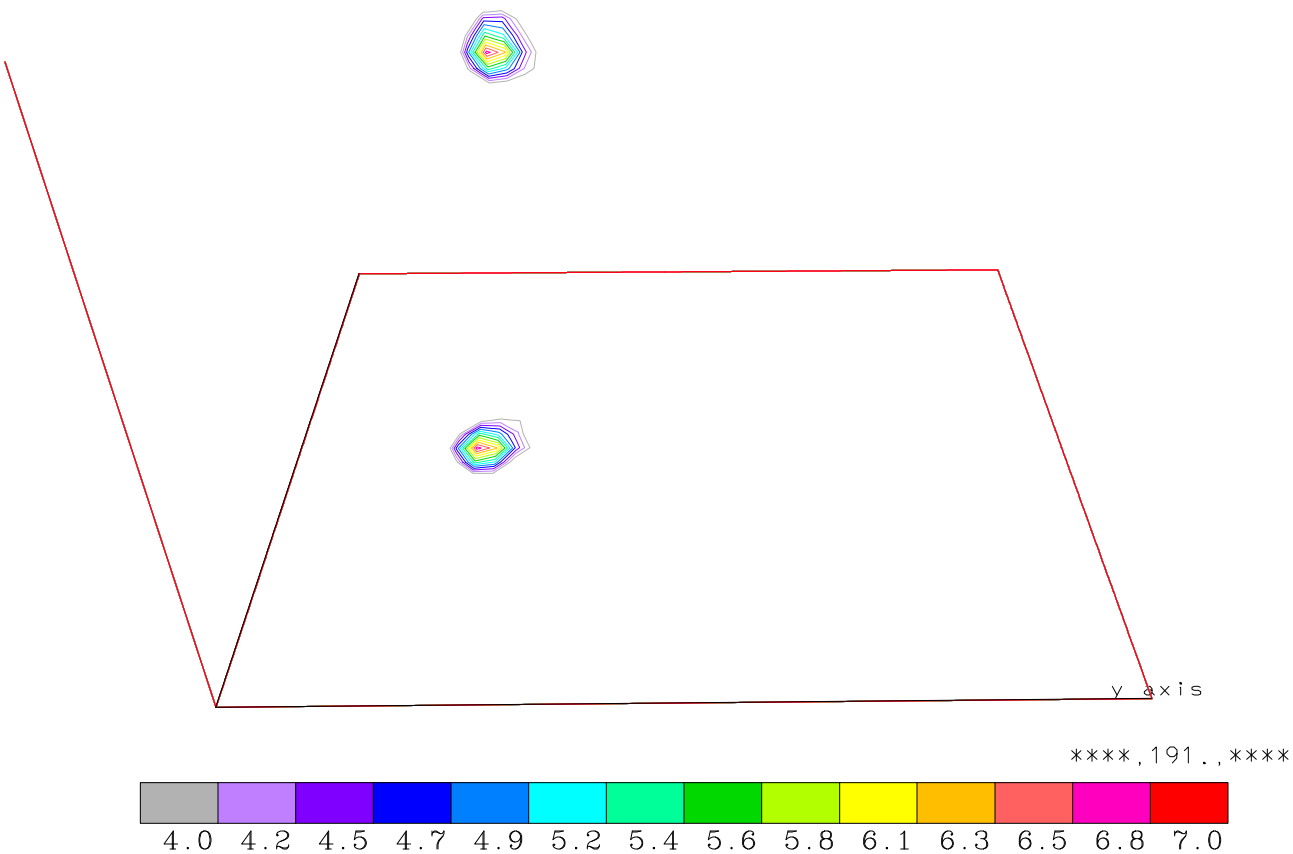
o den vt ut = 1.89

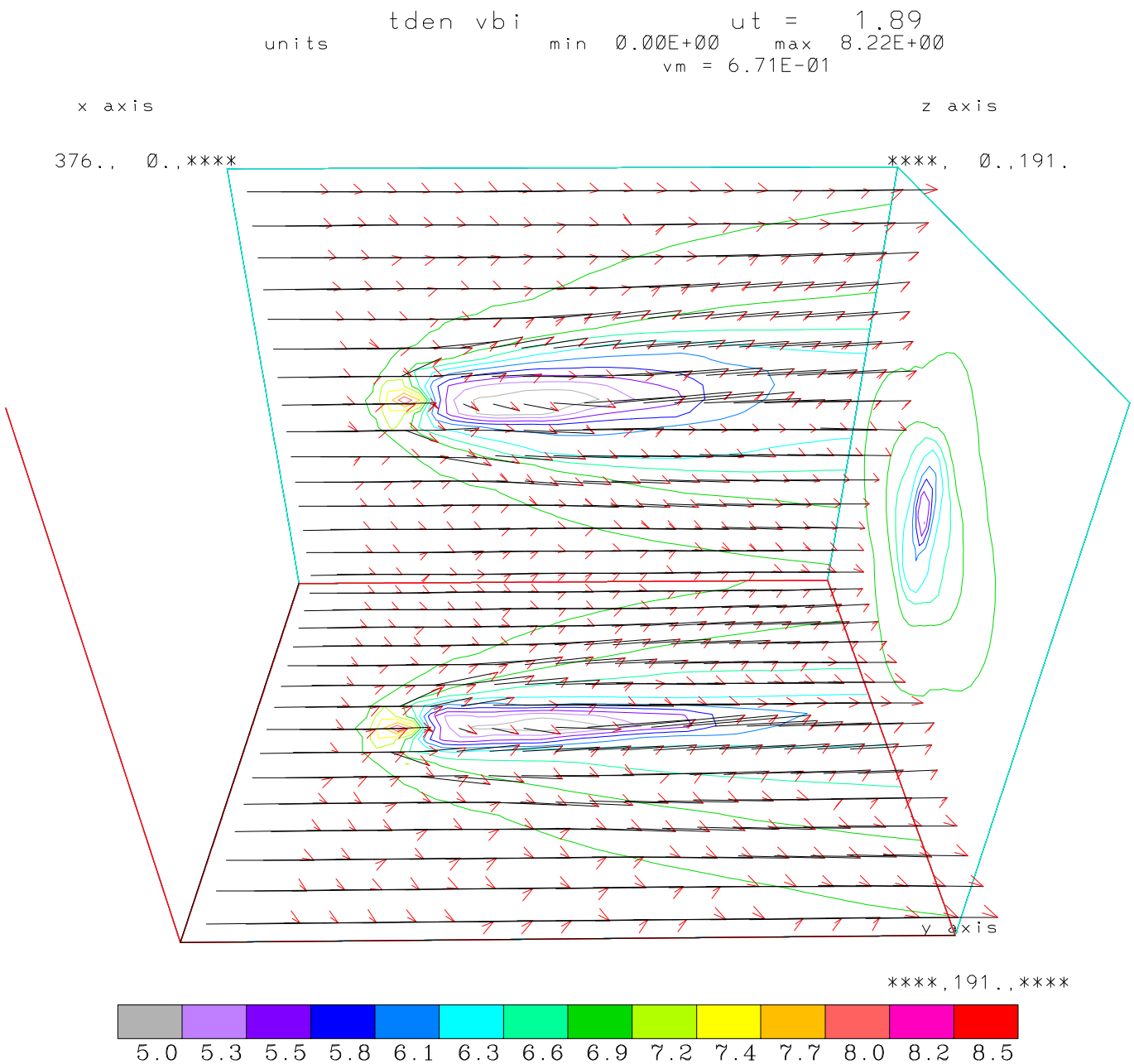
units min 0.00E+00 max 6.88E+00

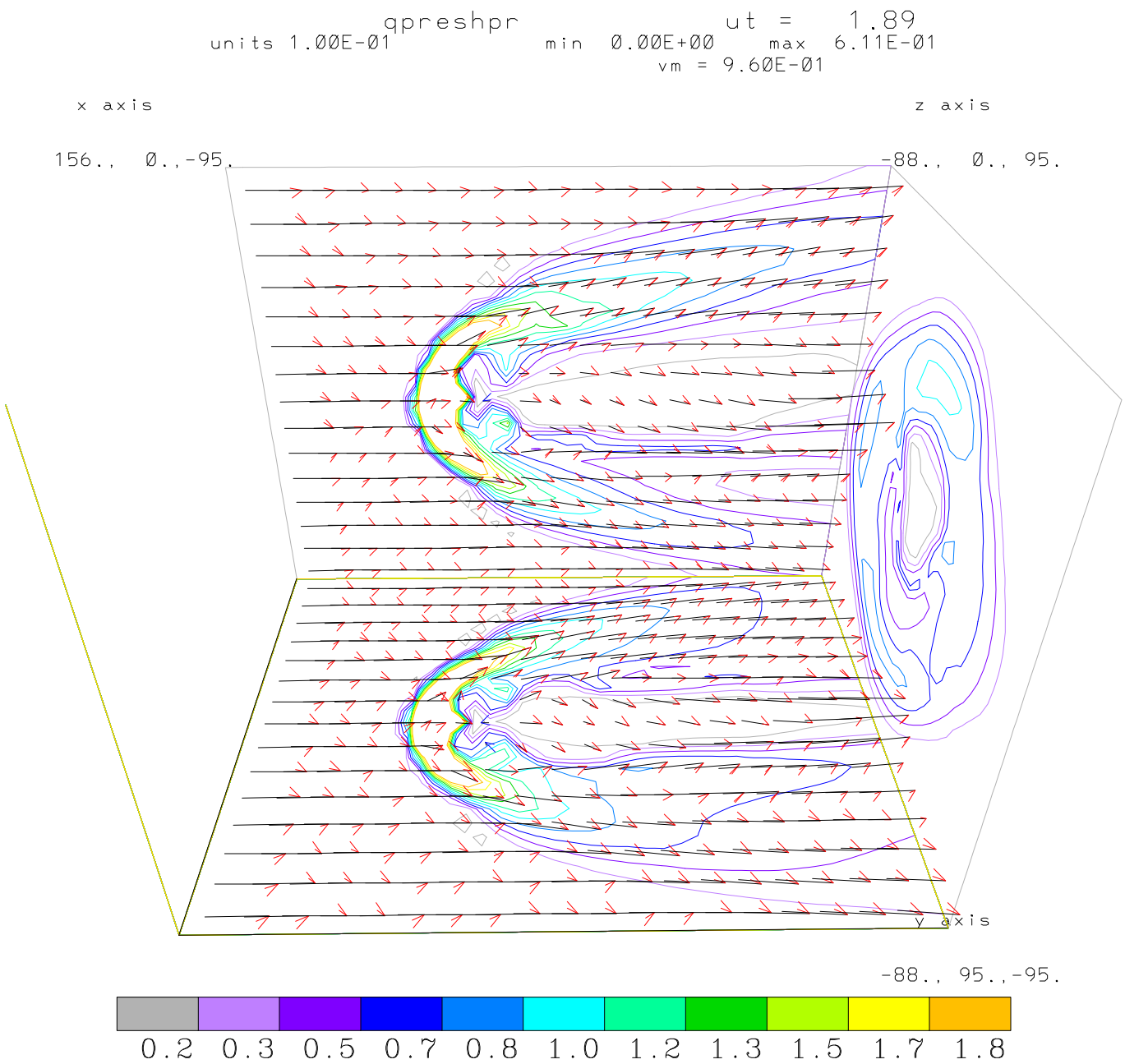
vm = 4.00E-05

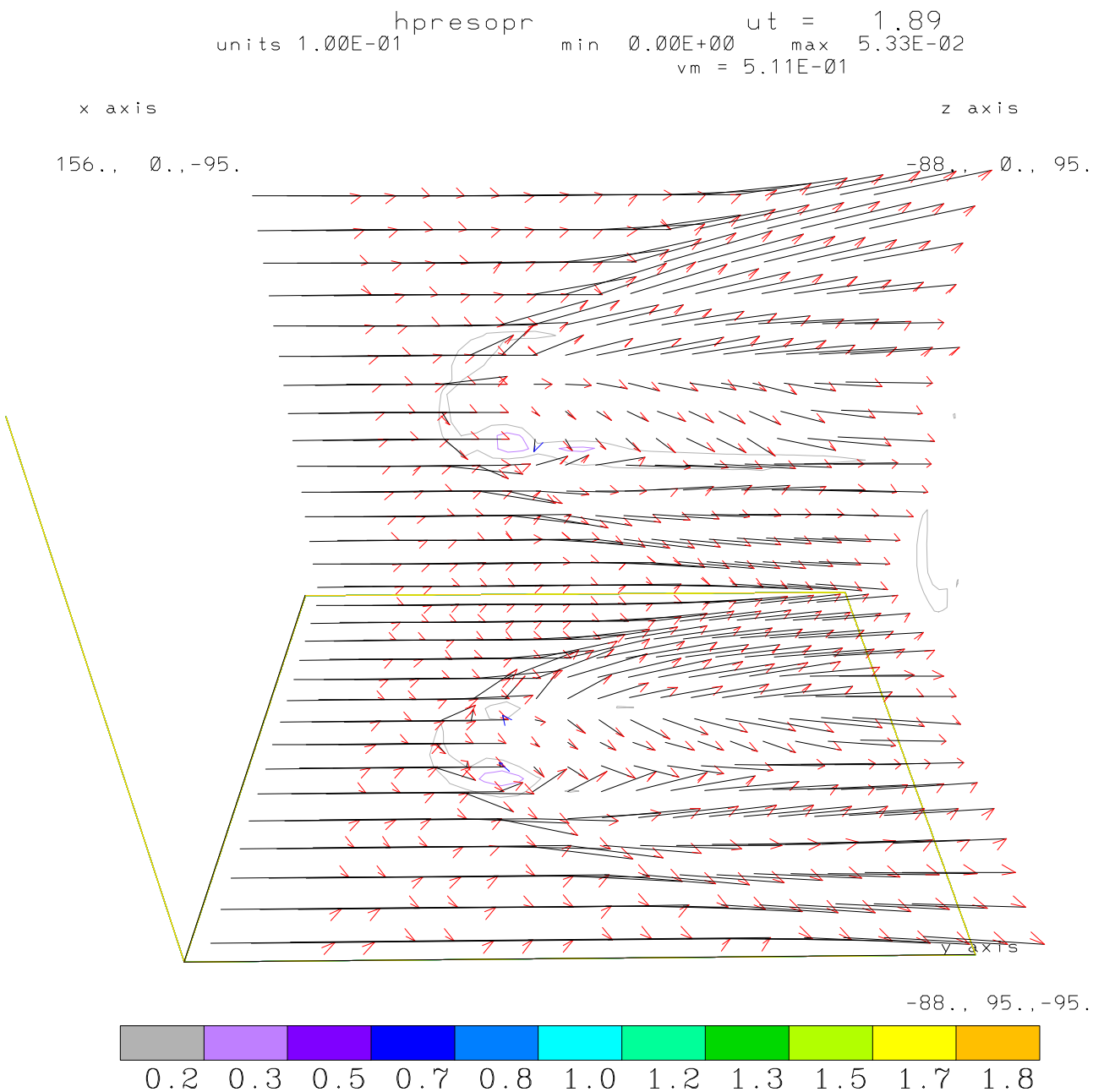
x axis z axis

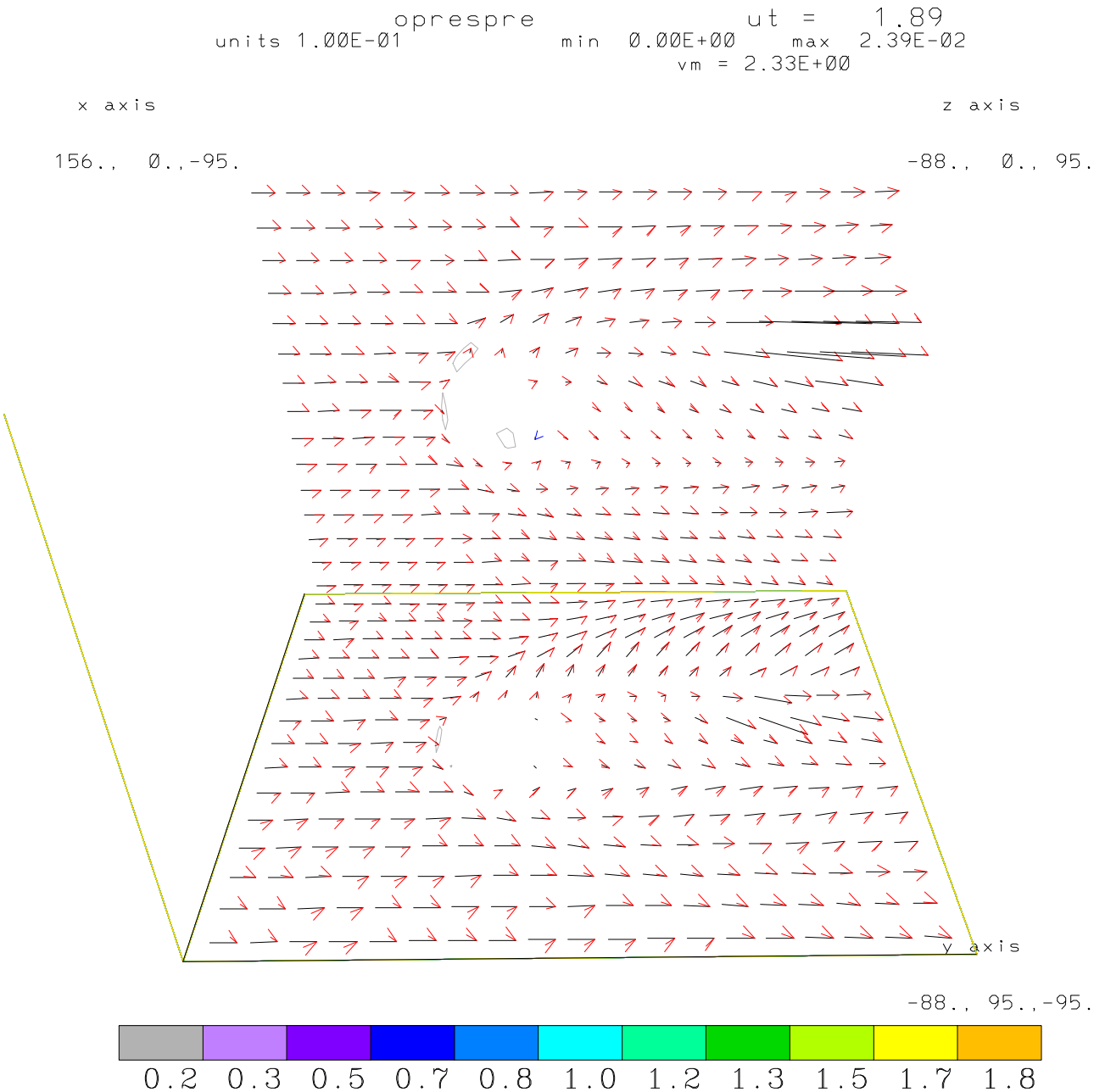
376., 0.,**** ****, 0.,191.

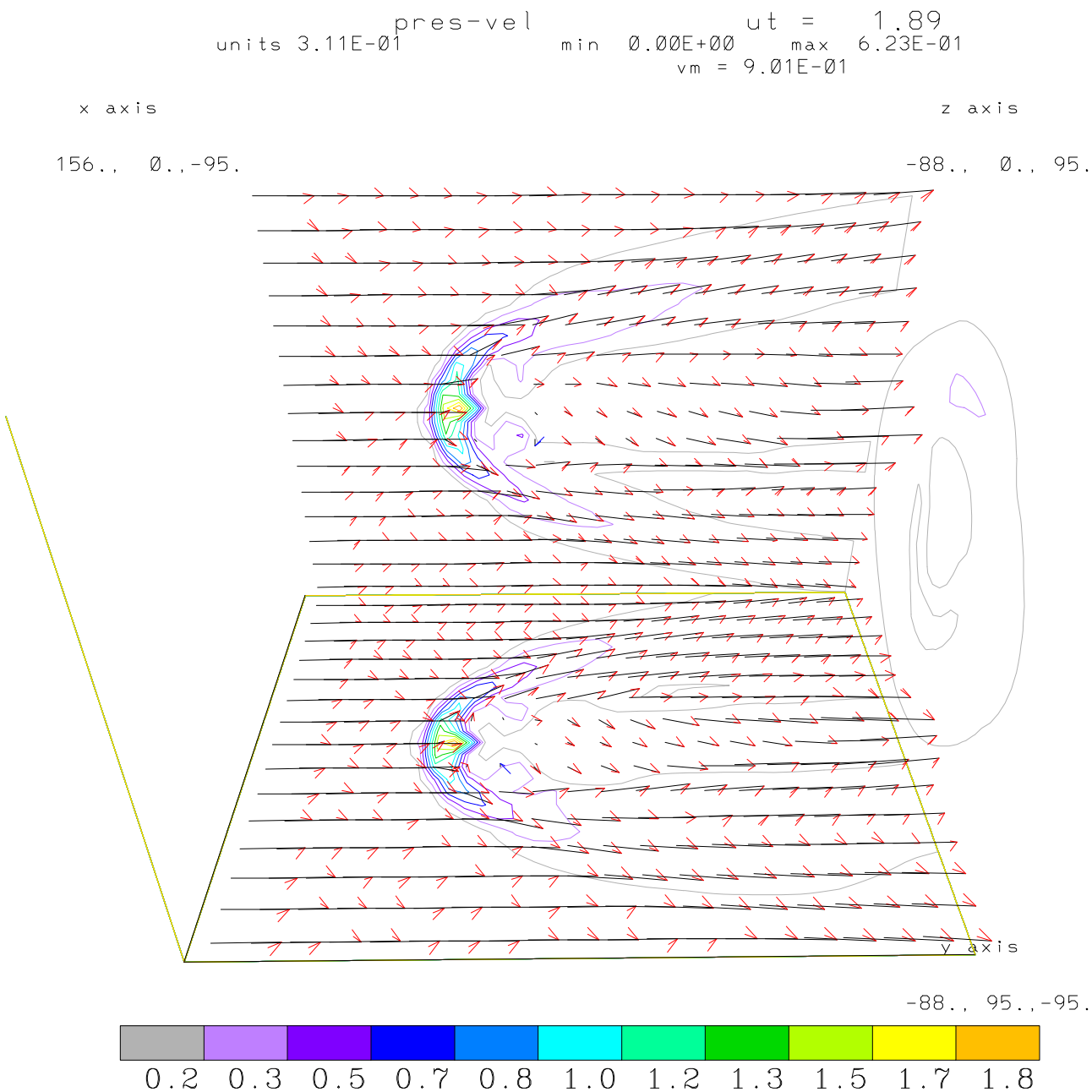


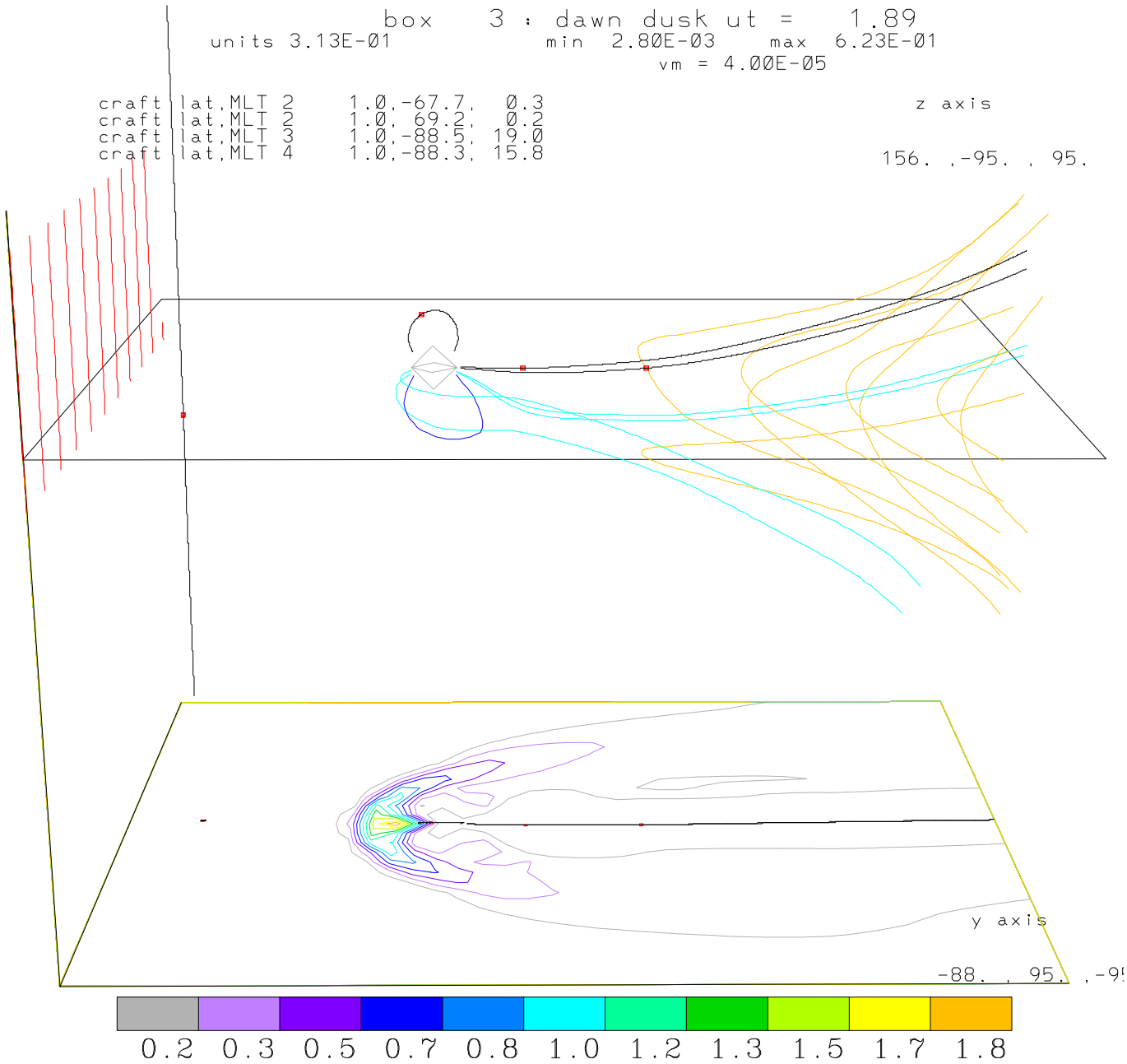

tden vbi
ut = 1.89
units
min 0.00E+00
max 8.22E+00
vm = 6.71E-01
x axis
z axis
376., 0.,****
****, 0.,191.
y axis
****,191.,****
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 6.11E-01
vm = 9.60E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 5.33E-02
vm = 5.11E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.89
units 1.00E-01
min 0.00E+00
max 2.39E-02
vm = 2.33E+00
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.89
units 3.11E-01
min 0.00E+00
max 6.23E-01
vm = 9.01E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


box 3 : dawn dusk ut = 1.89
units 3.13E-01
min 2.80E-03 max 6.23E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.7, 0.3
craft lat,MLT 2 1.0, 69.2, 0.2
craft lat,MLT 3 1.0,-88.5, 19.0
craft lat,MLT 4 1.0,-88.3, 15.8
z axis
156. ,-95. , 95.
y axis
-88. , 95. ,-9
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

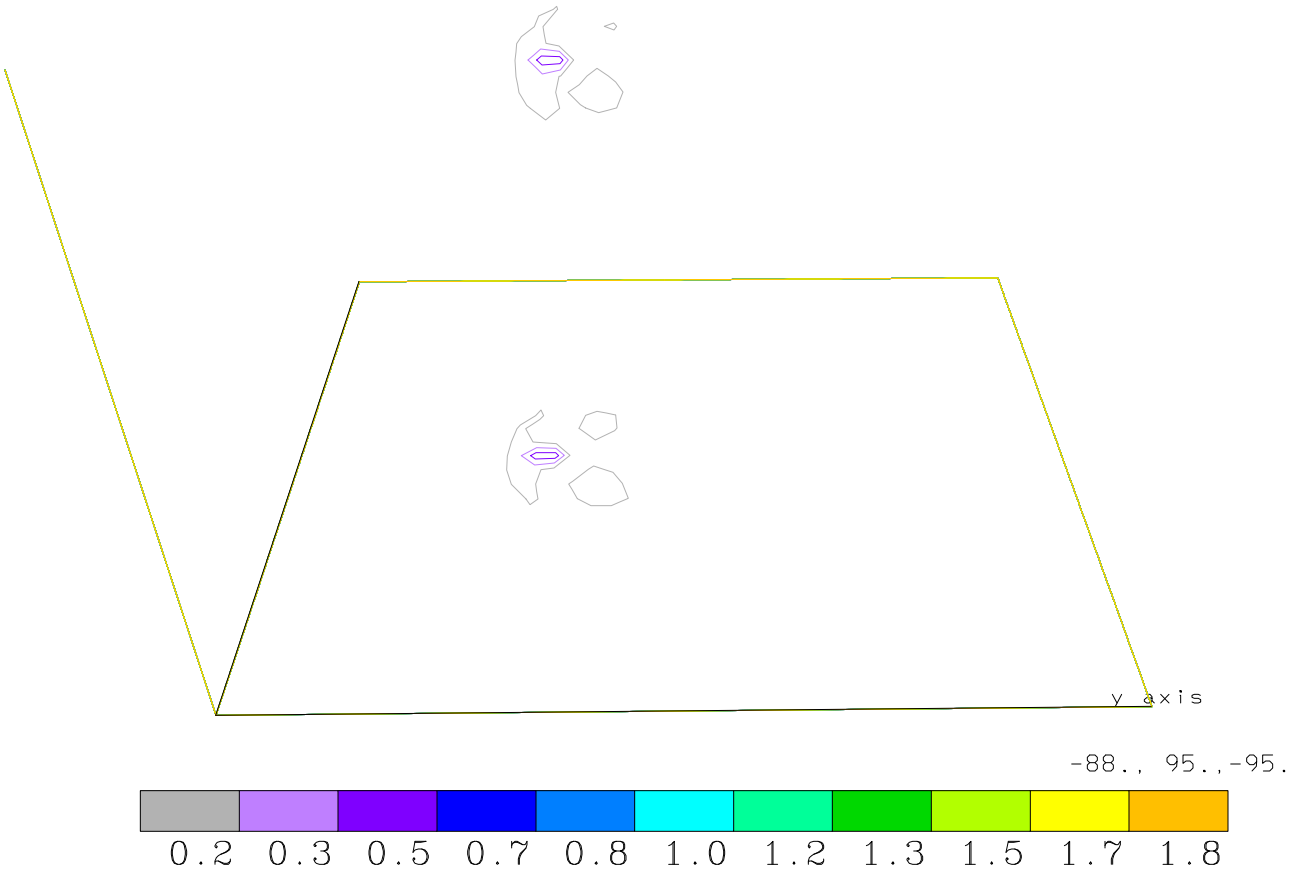
epresq t ut = 1.89

units 2.00E-01 min 0.00E+00 max 1.21E-01

vm = 4.00E-05

x axis z axis

156., 0.,-95. -88., 0., 95.



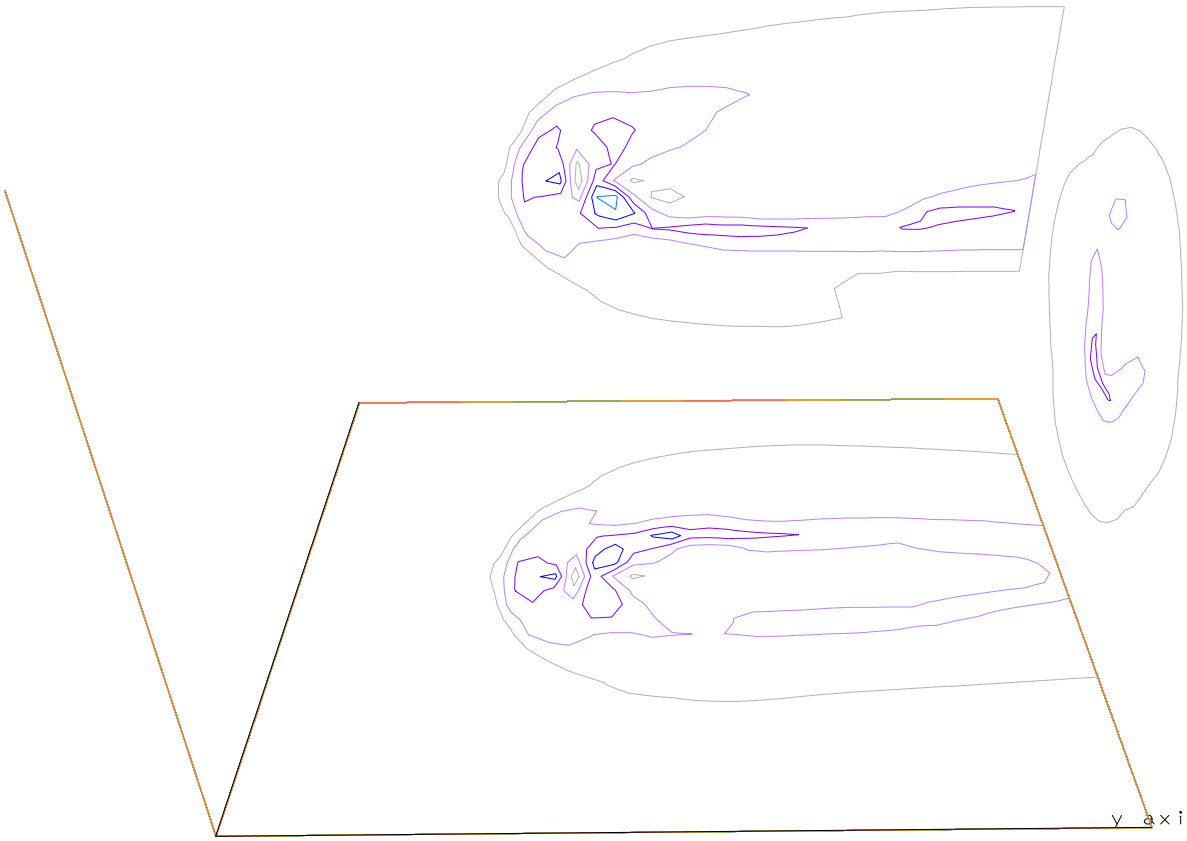
q temph ut = 1.89

units 2.50E-01 min 0.00E+00 max 2.14E-01

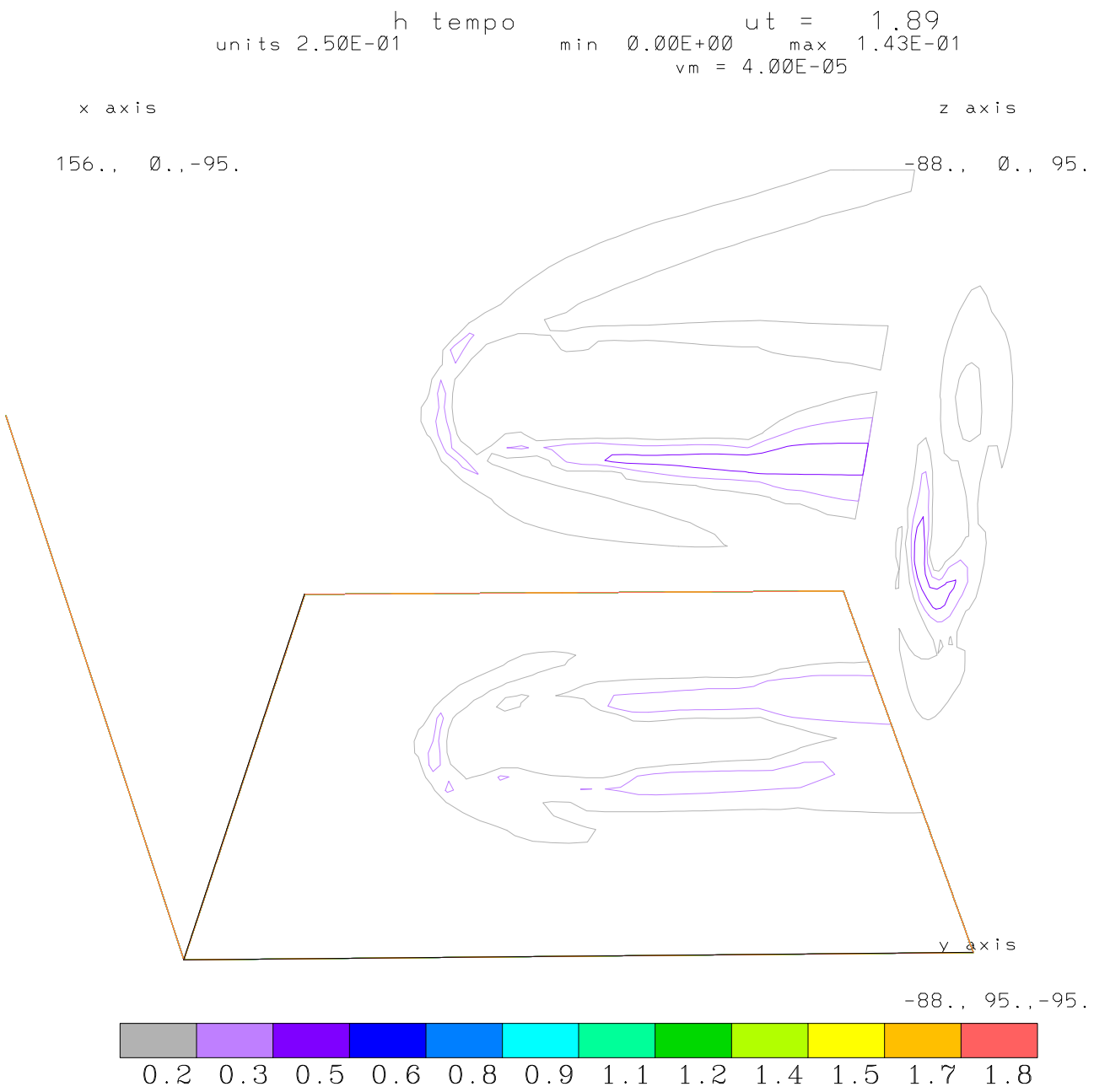
vm = 4.00E-05

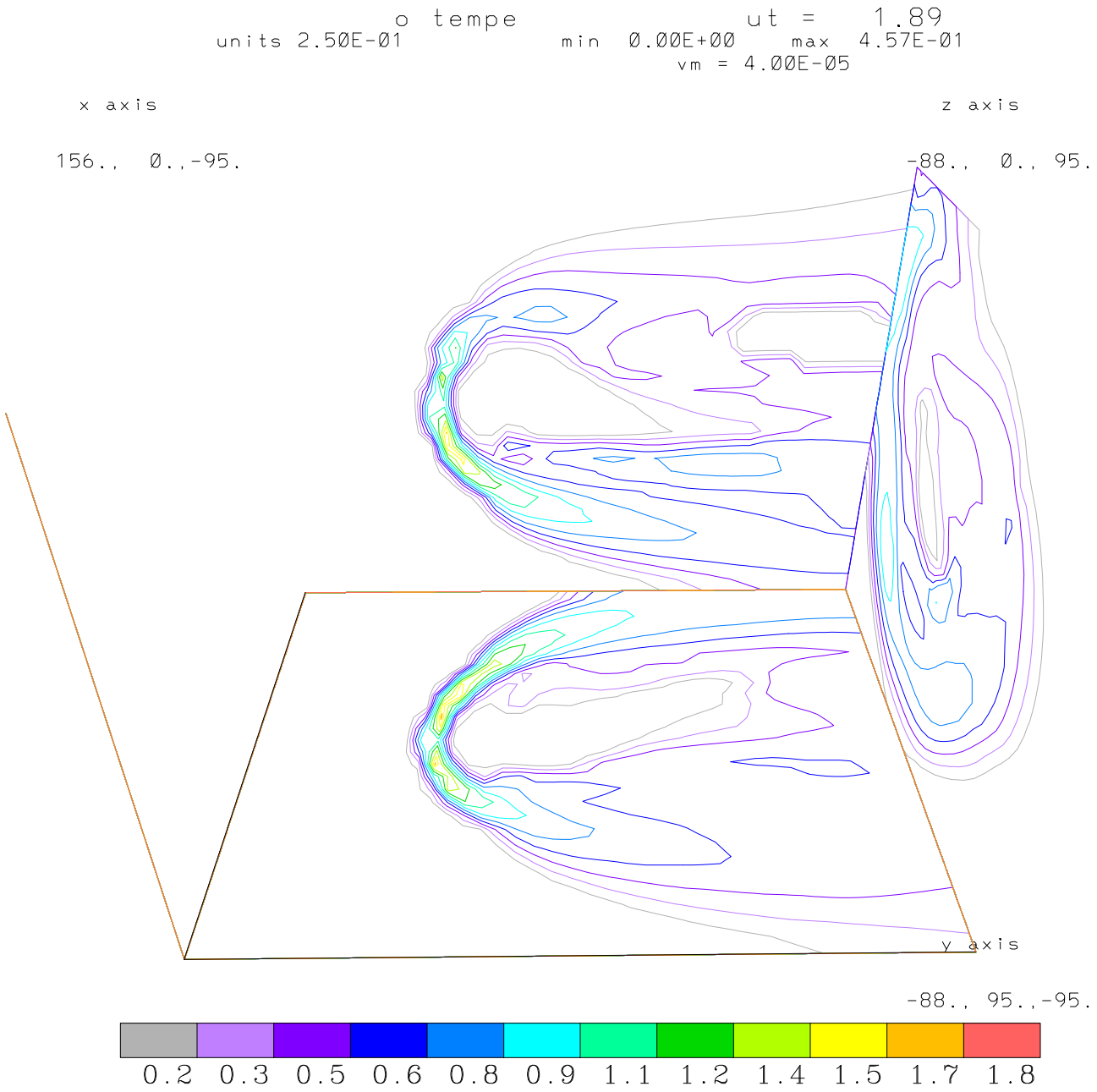
x axis z axis

156., 0.,-95. -88., 0., 95.



-88., 95.,-95.


h tempo
ut = 1.89
units 2.50E-01
min 0.00E+00
max 1.43E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.89
units 2.50E-01
min 0.00E+00
max 4.57E-01
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

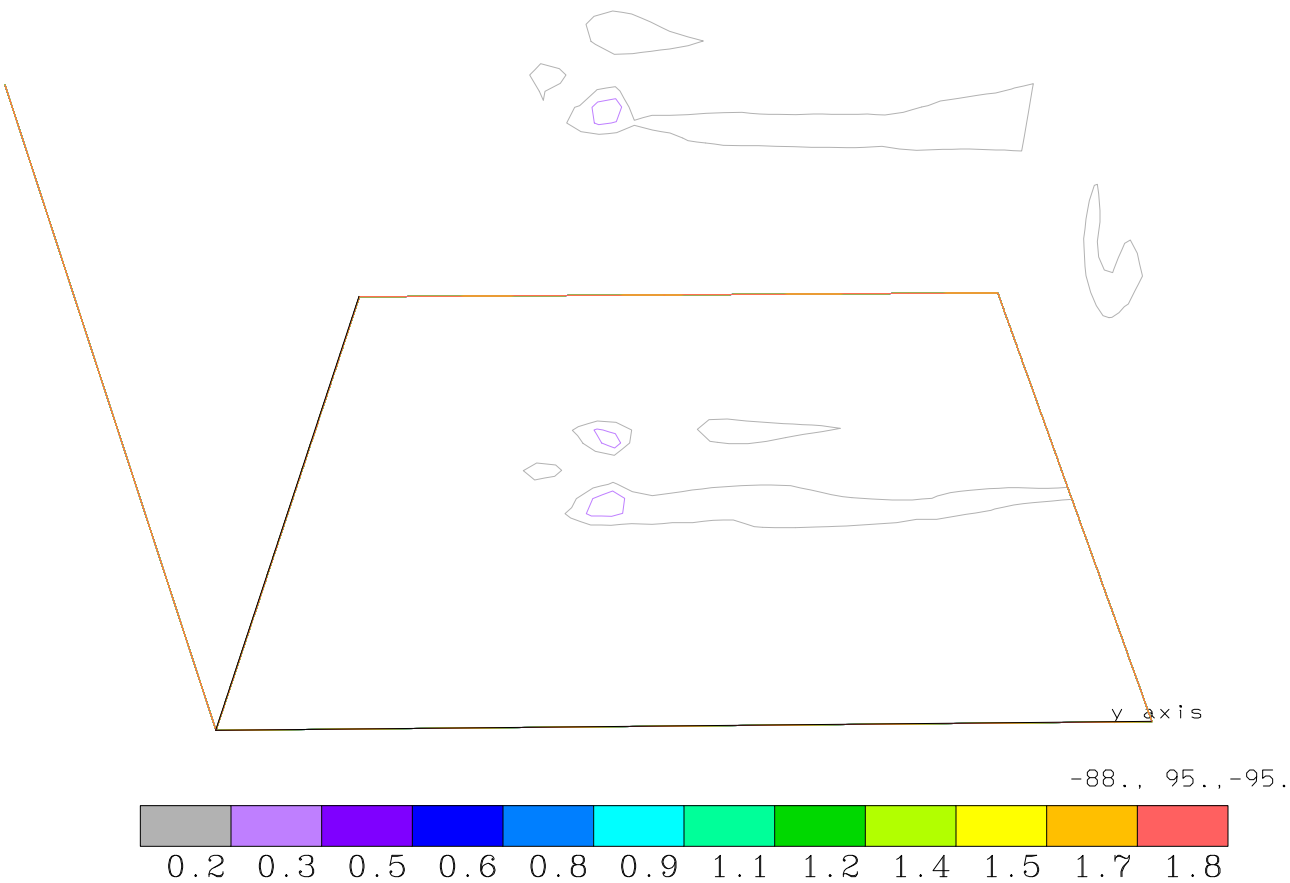
e tempq ut = 1.89

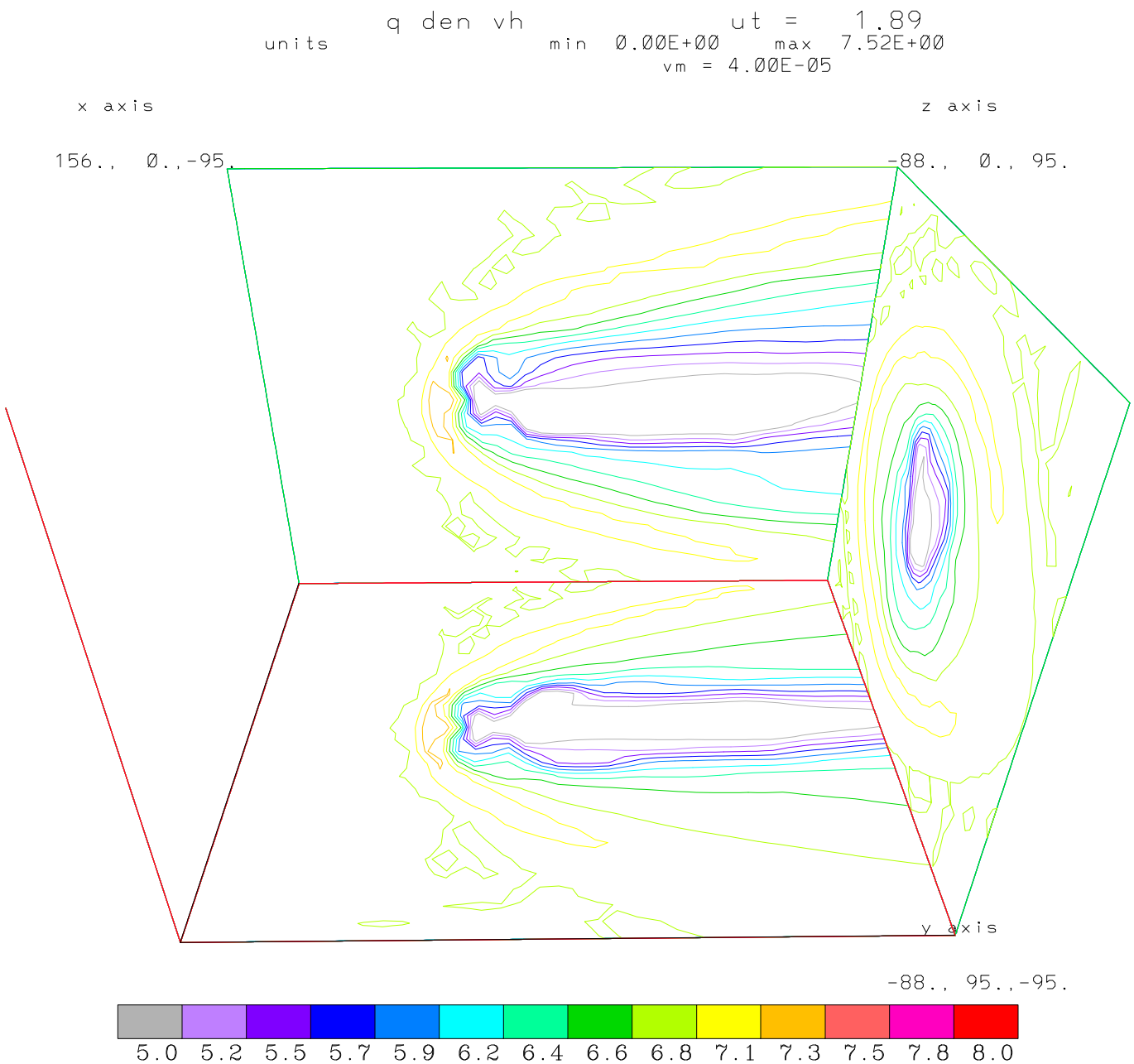
units 1.12E-01 min 0.00E+00 max 5.26E-02

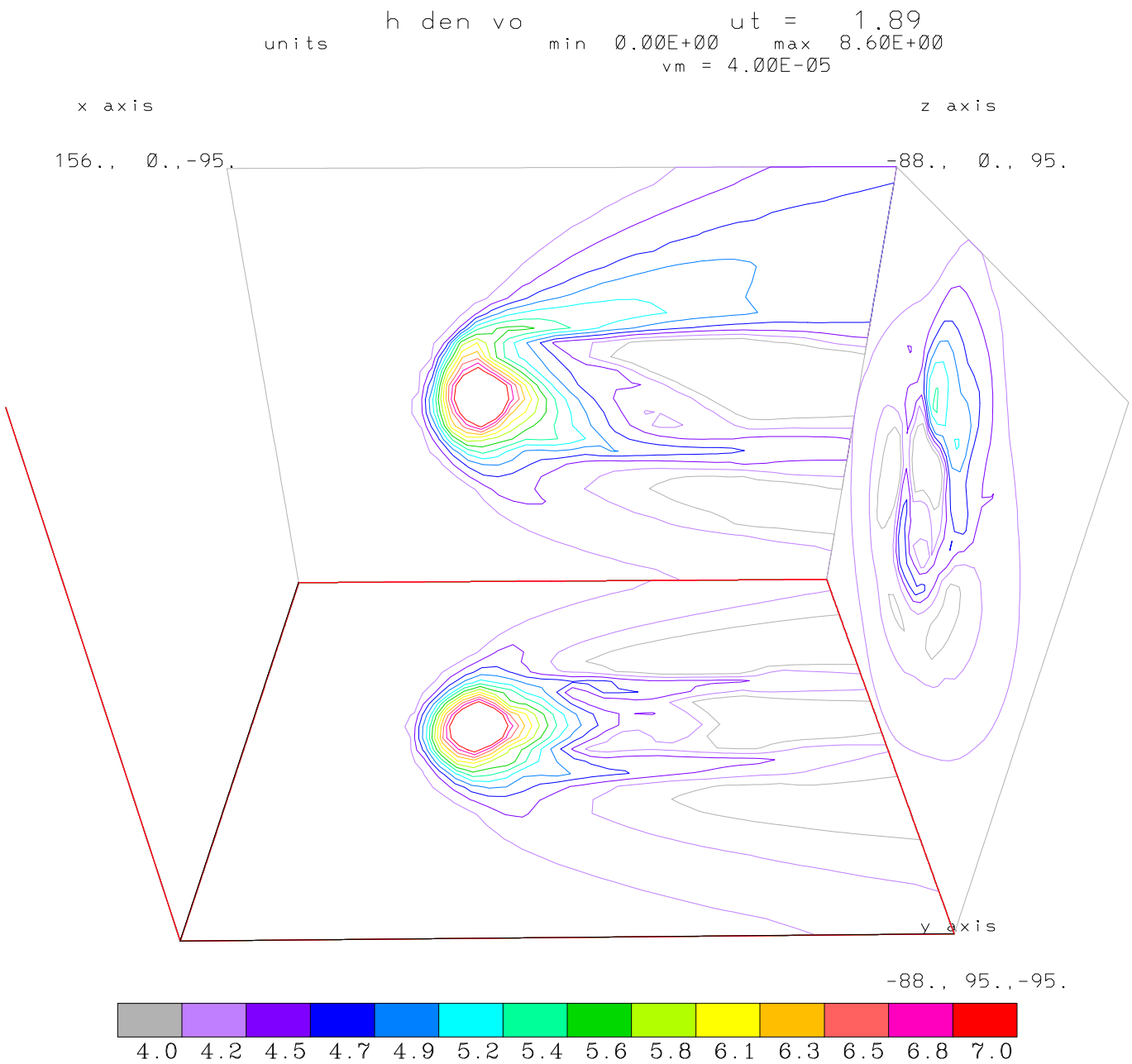
vm = 4.00E-05

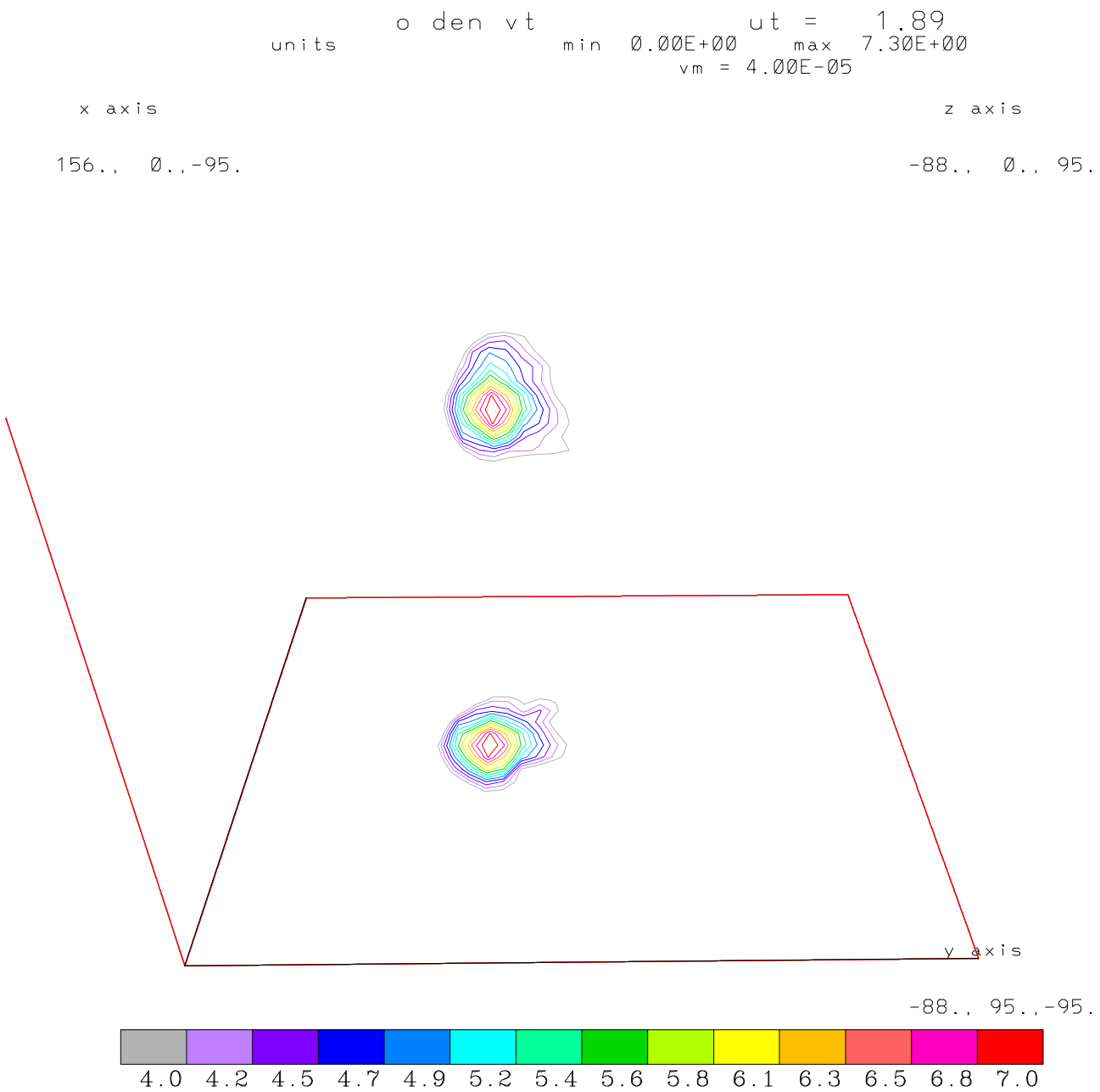
x axis z axis

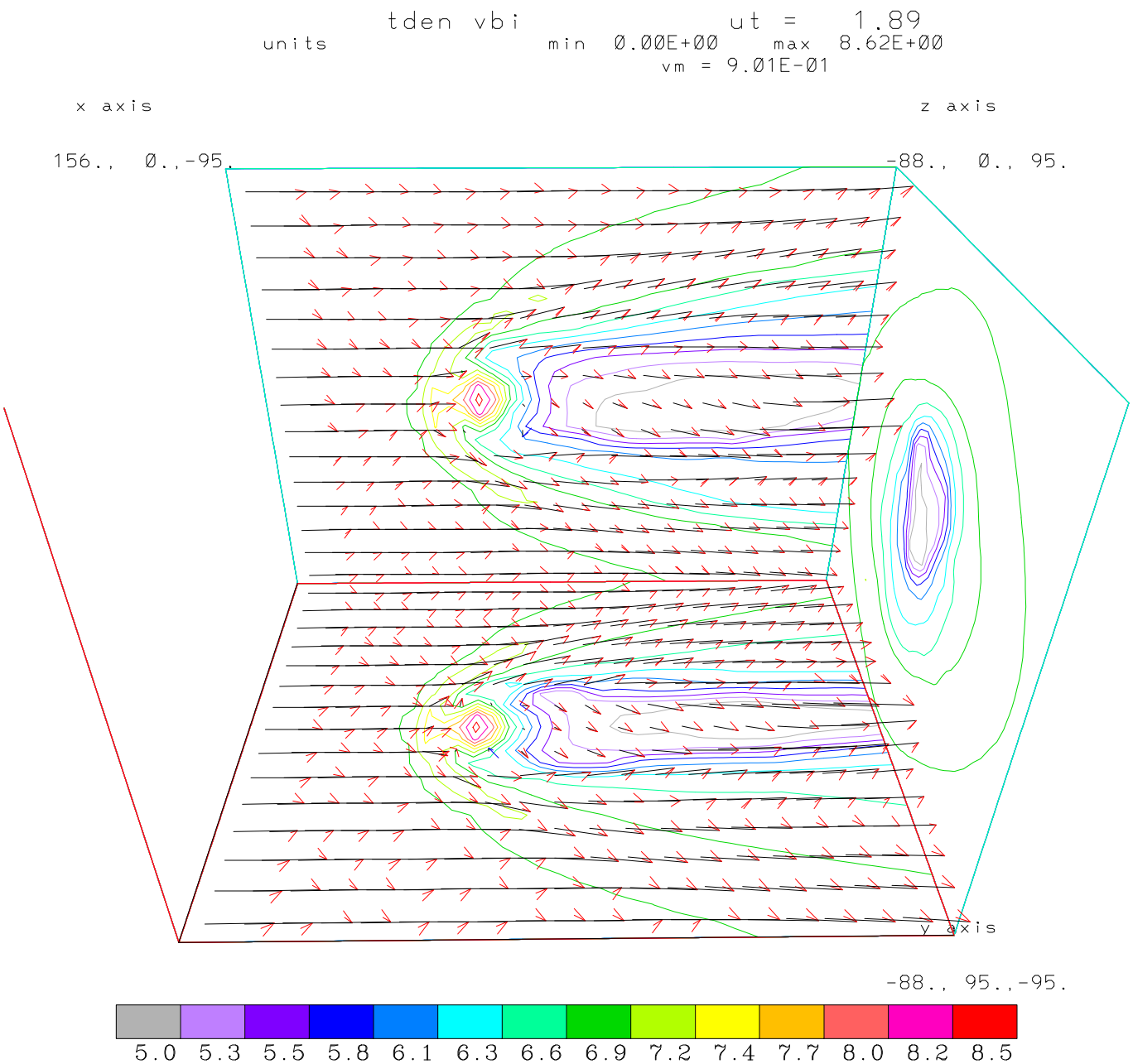
156., 0.,-95. -88., 0., 95.

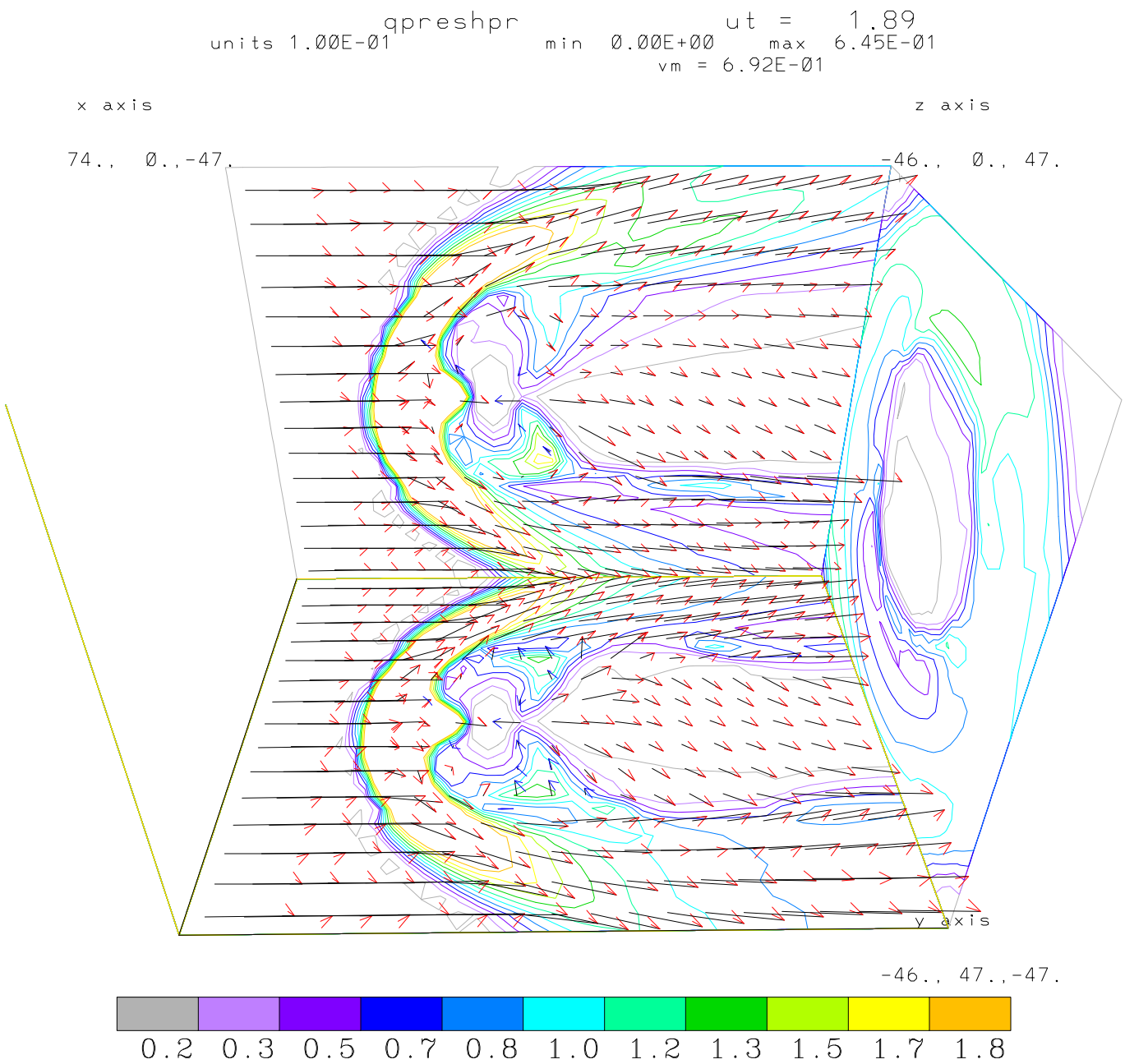


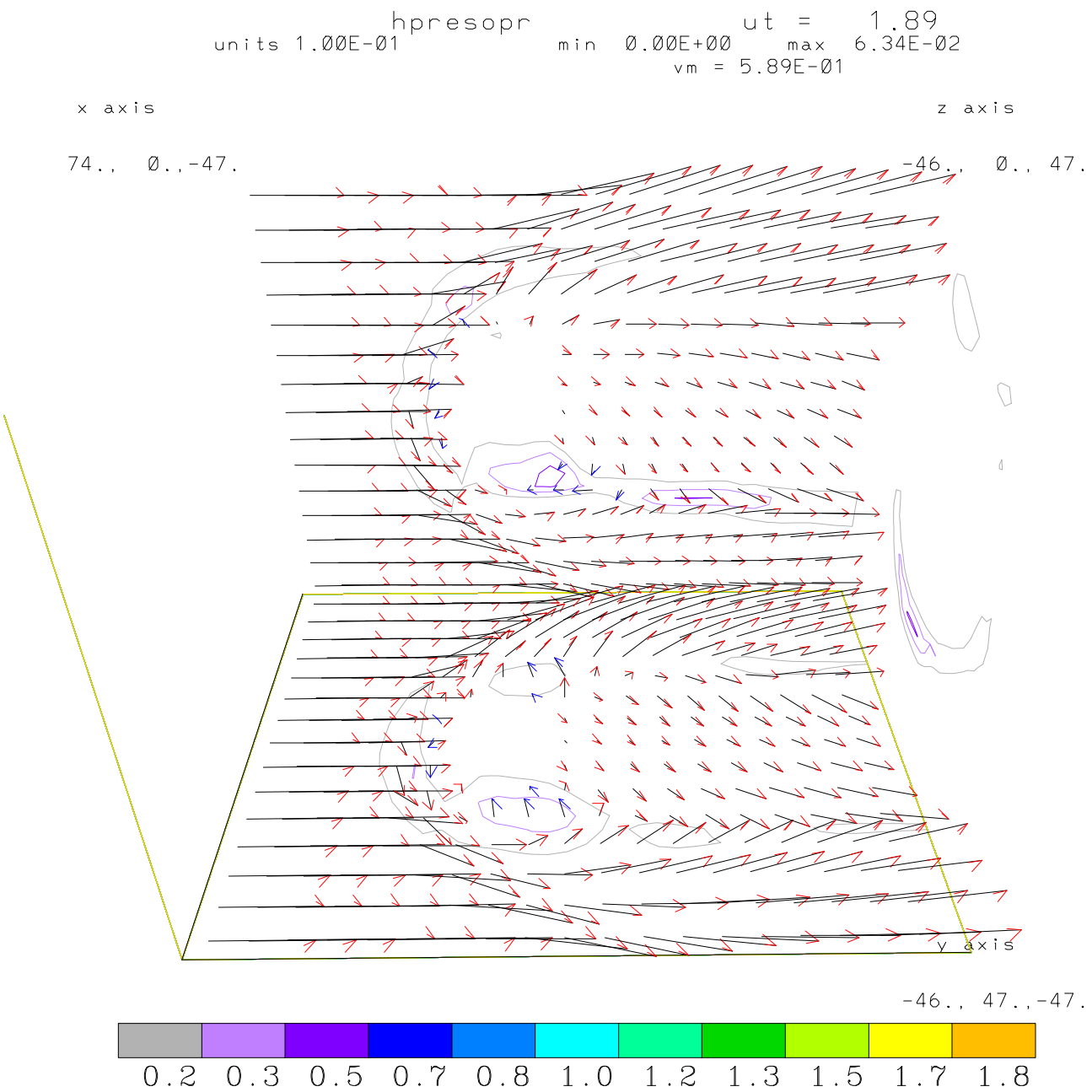

q den vh
ut = 1.89
units
min 0.00E+00
max 7.52E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0

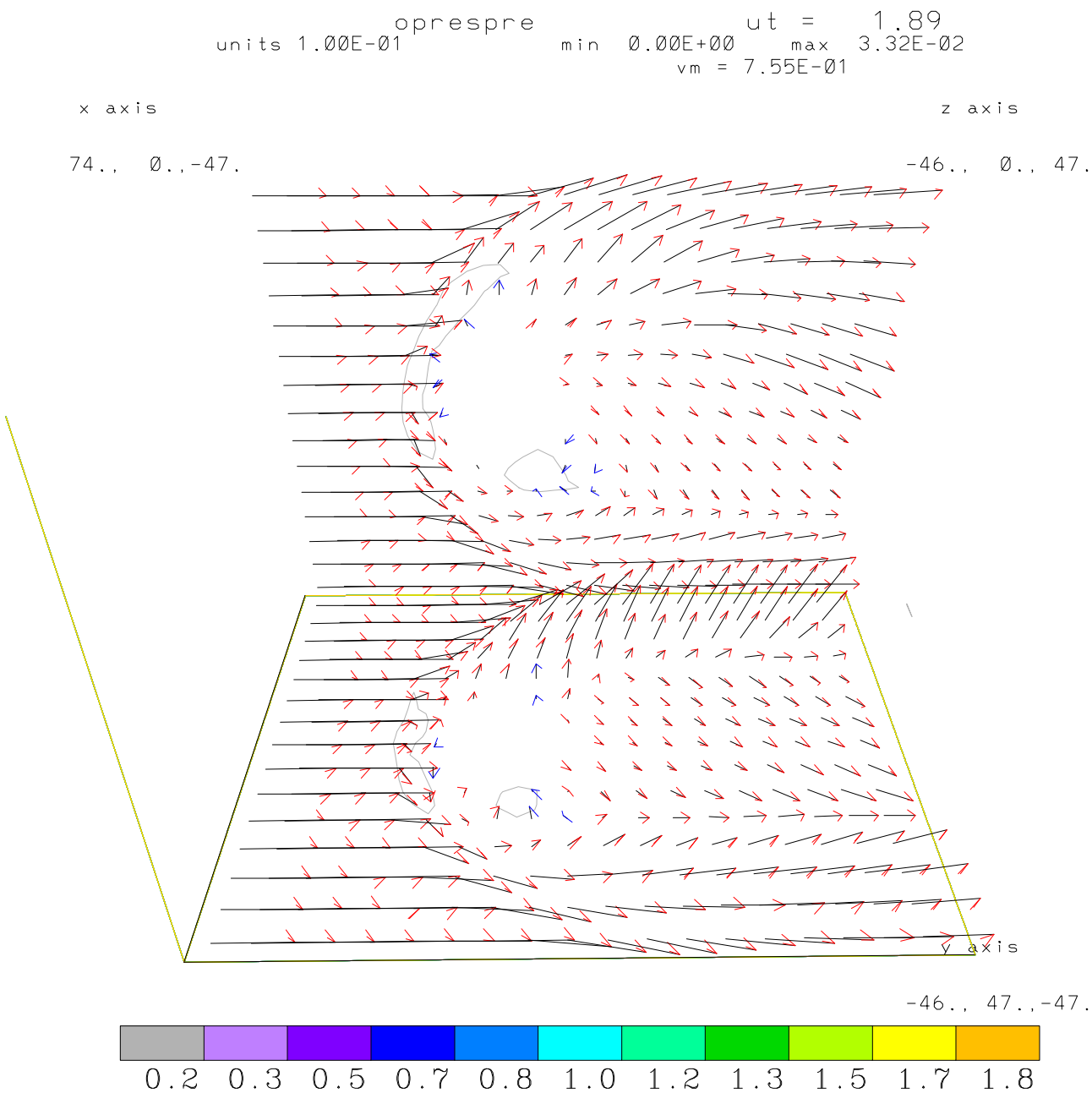

h den vo ut = 1.89
units min 0.00E+00 max 8.60E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0

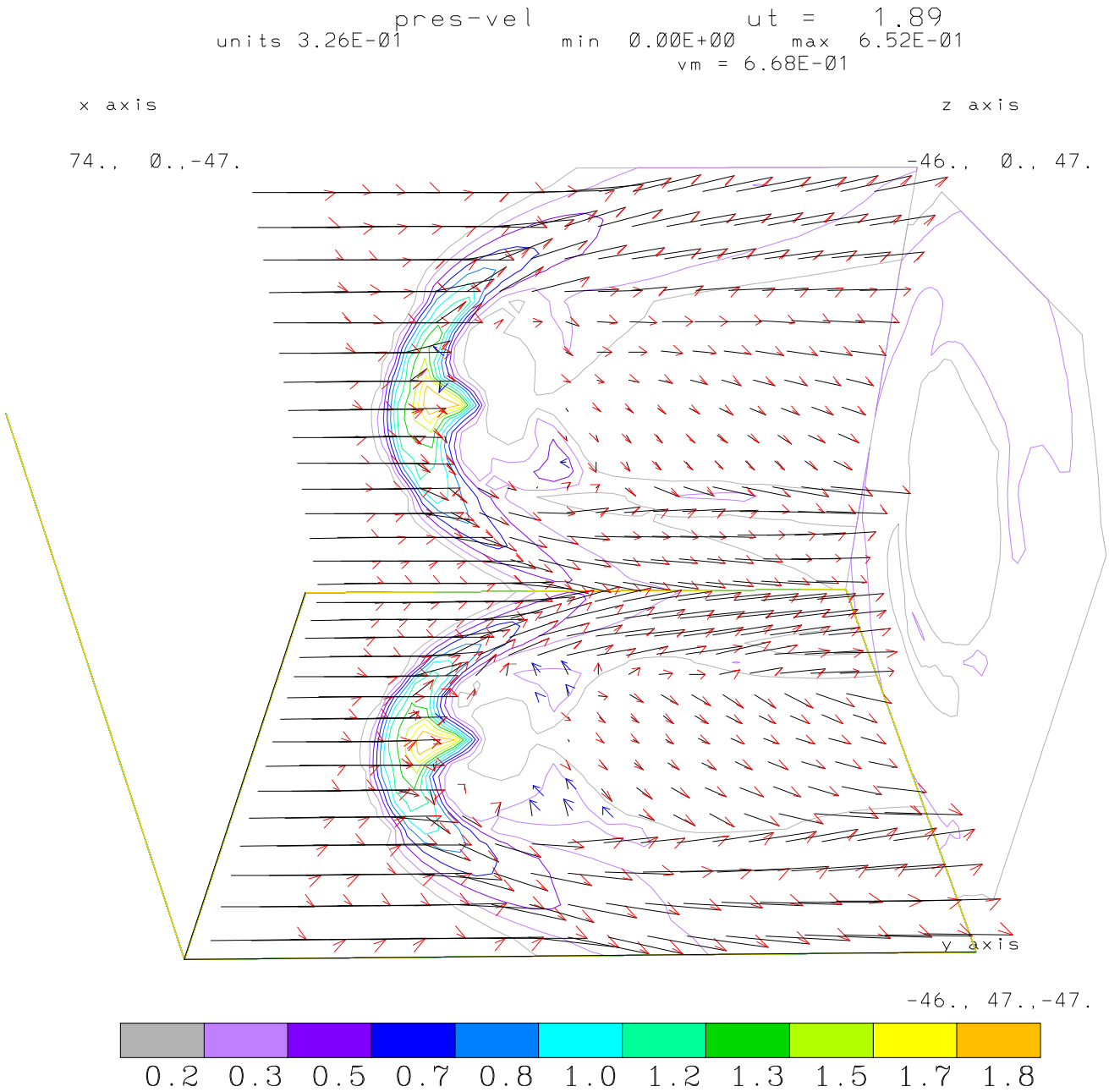

o den vt
ut = 1.89
units
min 0.00E+00
max 7.30E+00
vm = 4.00E-05
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.89
units
min 0.00E+00
max 8.62E+00
vm = 9.01E-01
x axis
z axis
156., 0.,-95.
-88., 0., 95.
y axis
-88., 95.,-95.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 6.45E-01
vm = 6.92E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


hpresopr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 6.34E-02
vm = 5.89E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


oprespre
ut = 1.89
units 1.00E-01
min 0.00E+00
max 3.32E-02
vm = 7.55E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


pres-vel
ut = 1.89
units 3.26E-01
min 0.00E+00
max 6.52E-01
vm = 6.68E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

box 2 : dawn dusk ut = 1.89

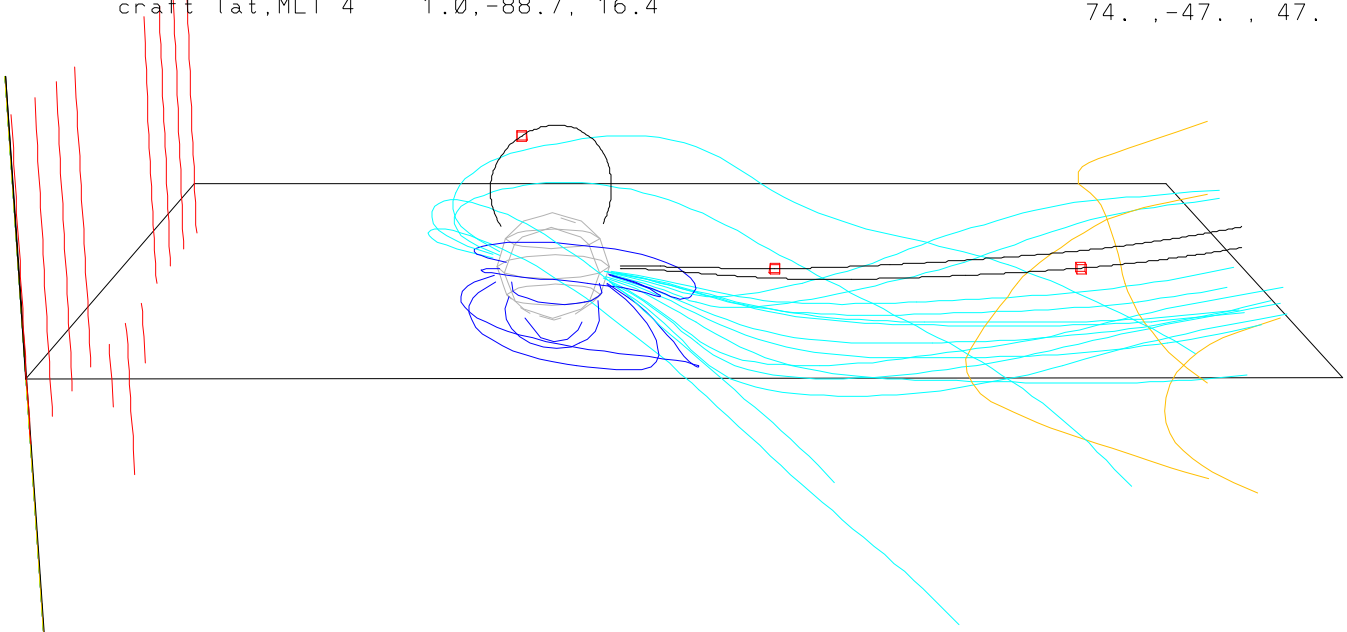
units 3.27E-01 min 2.02E-03 max 6.52E-01

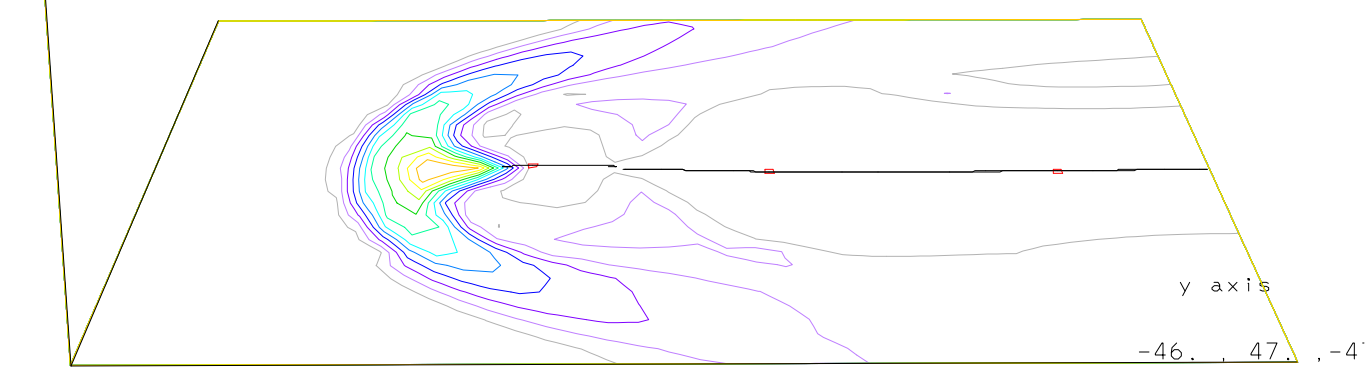
vm = 4.00E-05

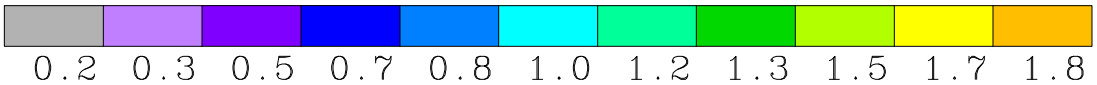
craft lat,MLT 2 1.0,-66.8, 0.2
craft lat,MLT 2 1.0, 68.1, 0.2
craft lat,MLT 3 1.0,-88.7, 19.3
craft lat,MLT 4 1.0,-88.7, 16.4

z axis

74. ,-47. , 47.







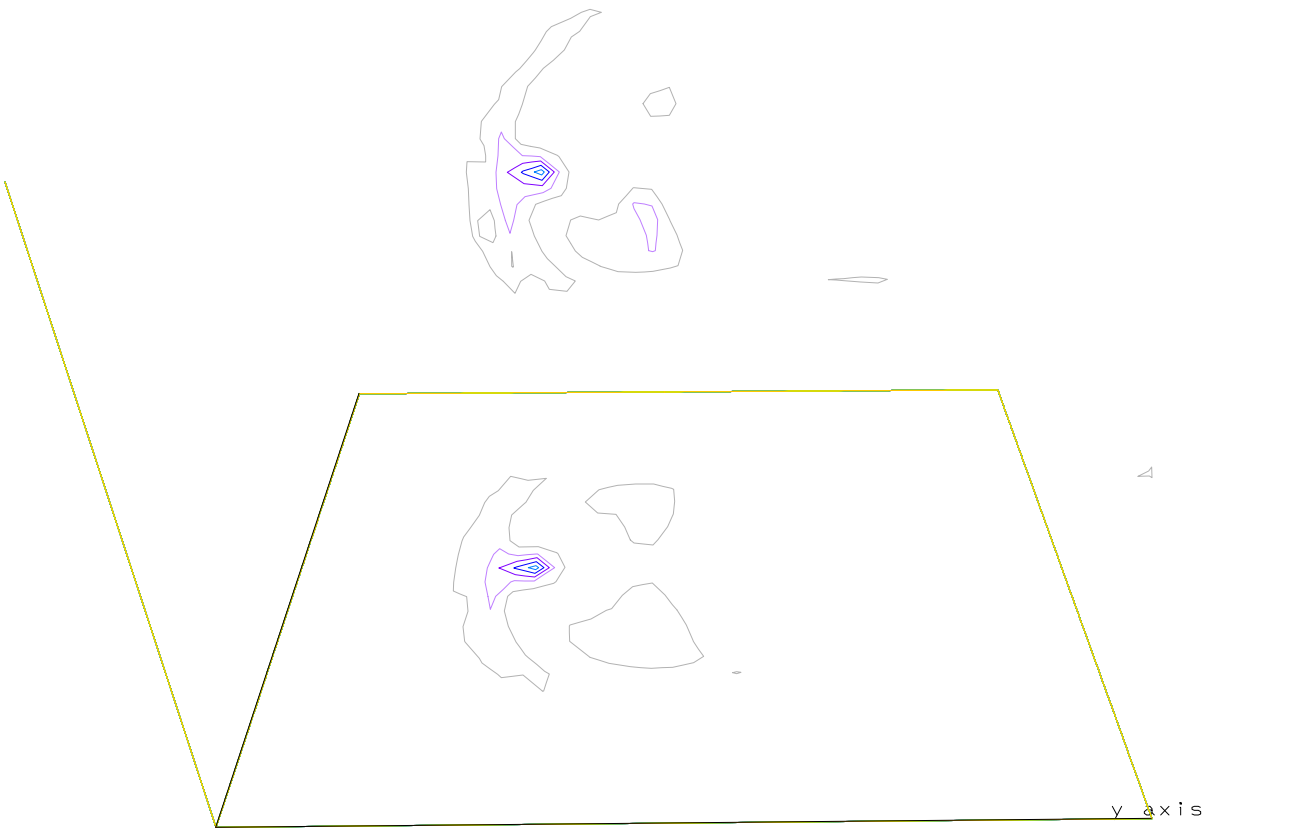
epresq t ut = 1.89

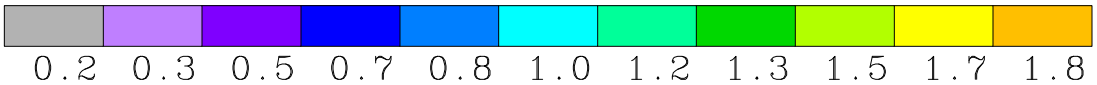
units 2.00E-01 min 0.00E+00 max 1.85E-01

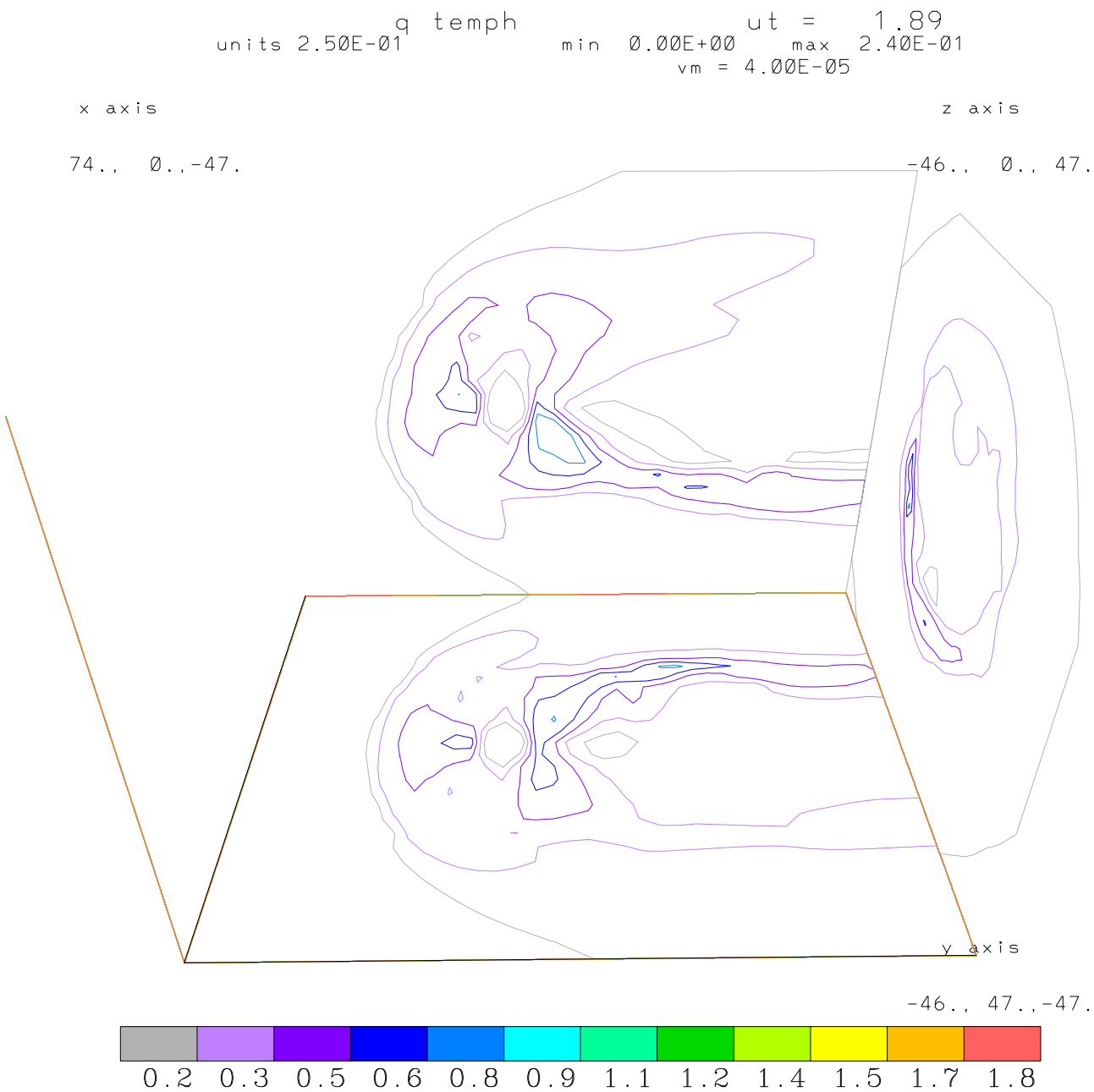
vm = 4.00E-05

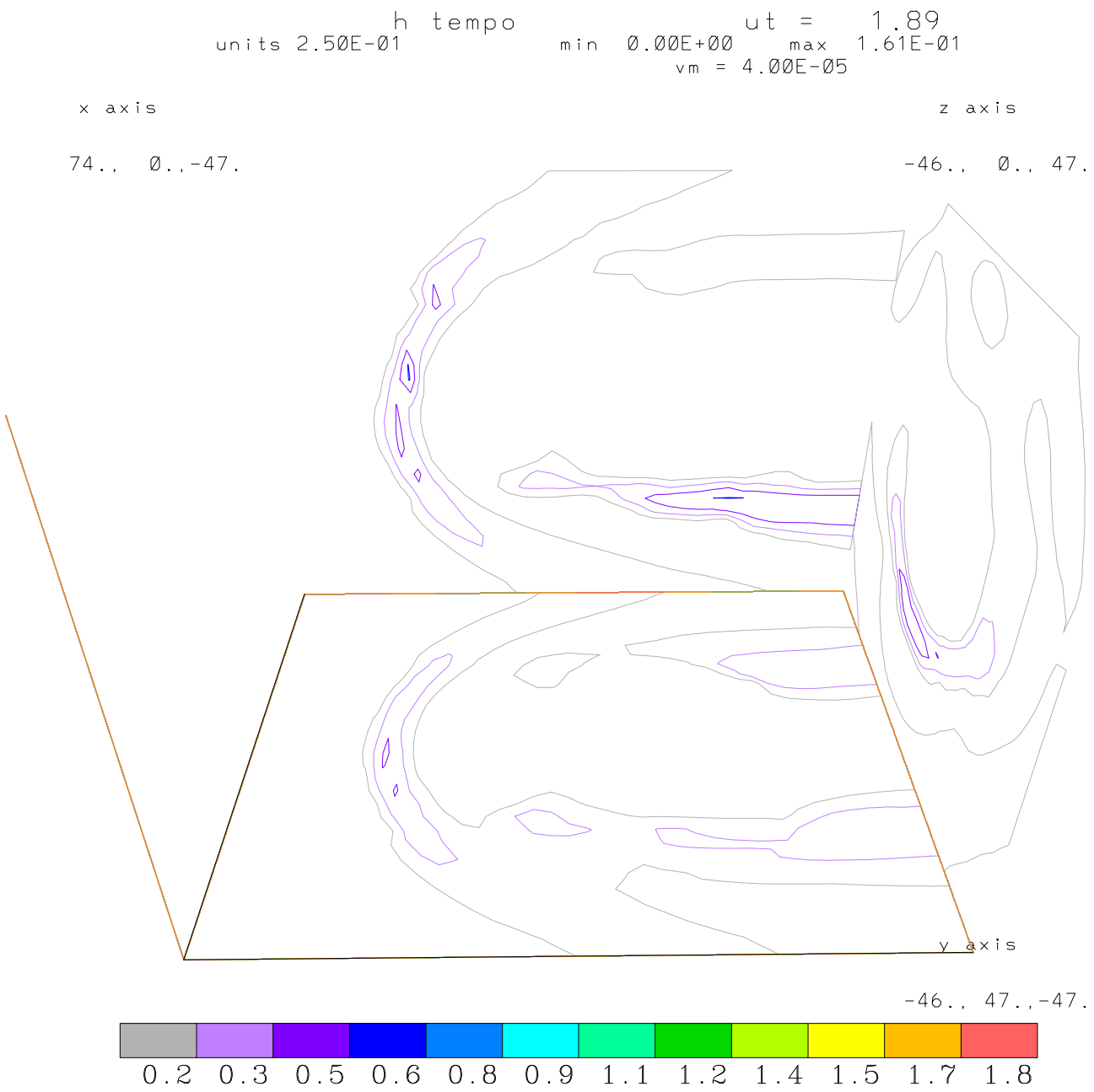
x axis z axis

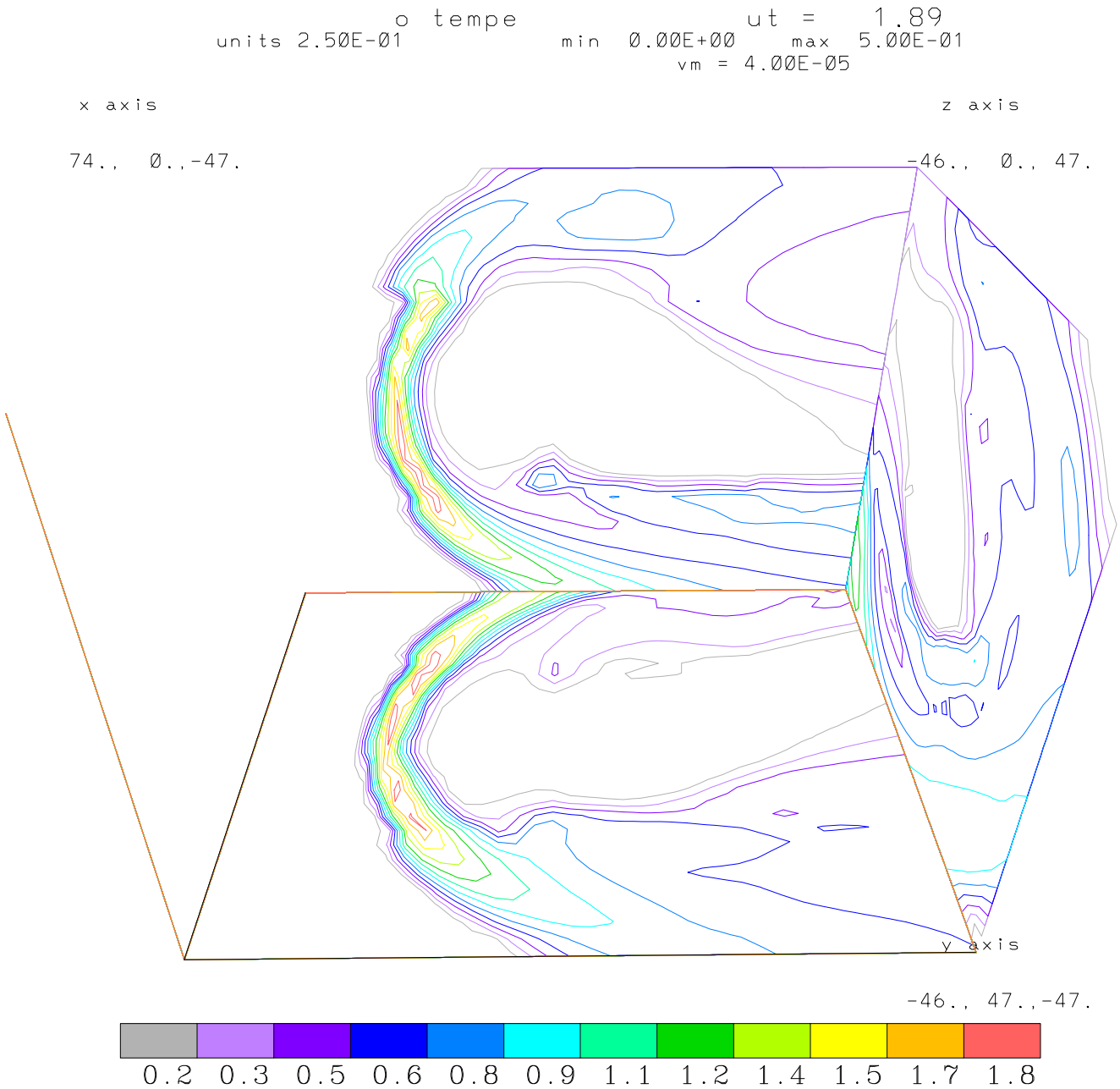
74., 0.,-47. -46., 0., 47.






q temph
ut = 1.89
units 2.50E-01
min 0.00E+00
max 2.40E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


h tempo
ut = 1.89
units 2.50E-01
min 0.00E+00
max 1.61E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.89
units 2.50E-01
min 0.00E+00
max 5.00E-01
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8

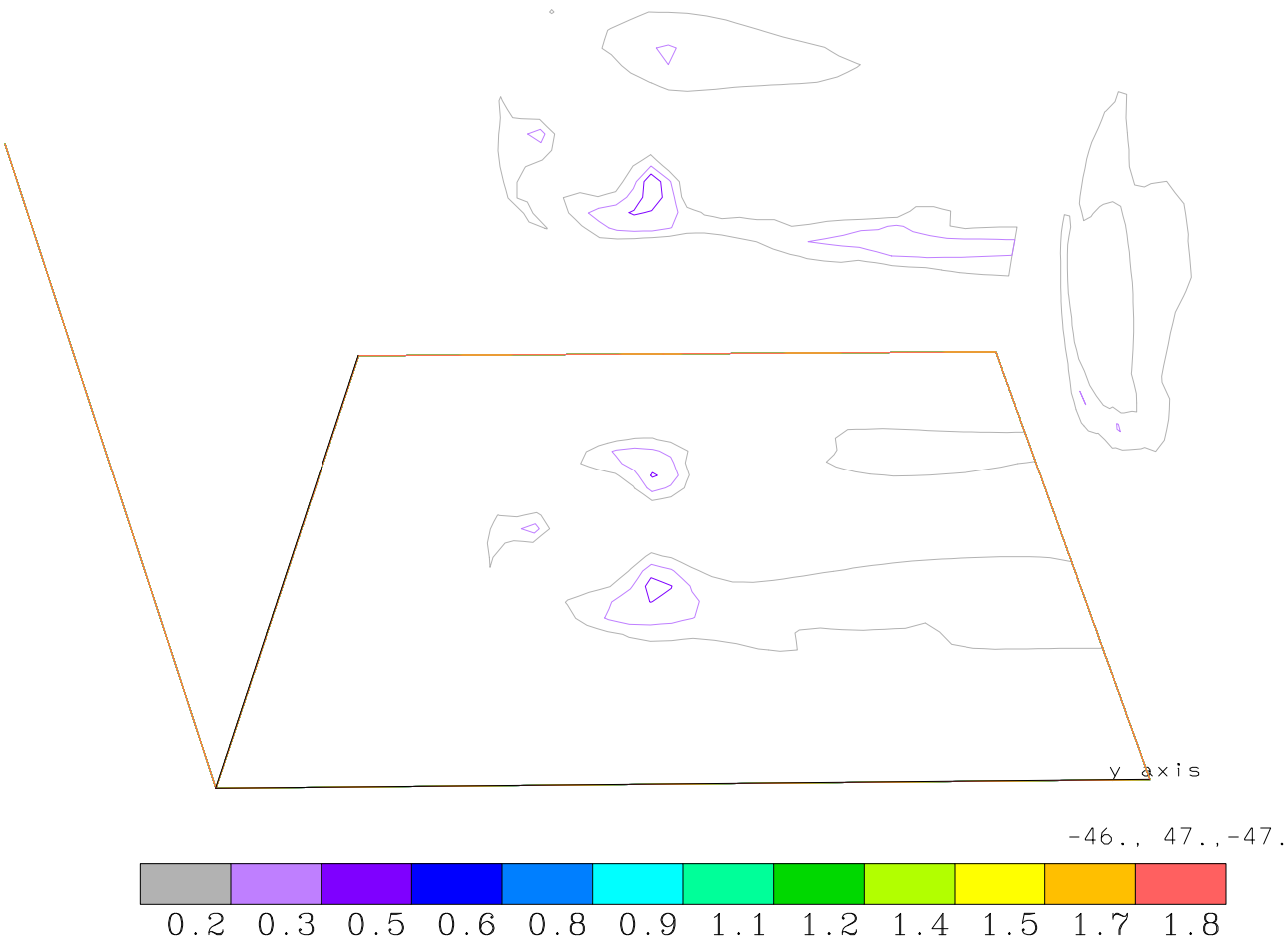
e tempq ut = 1.89

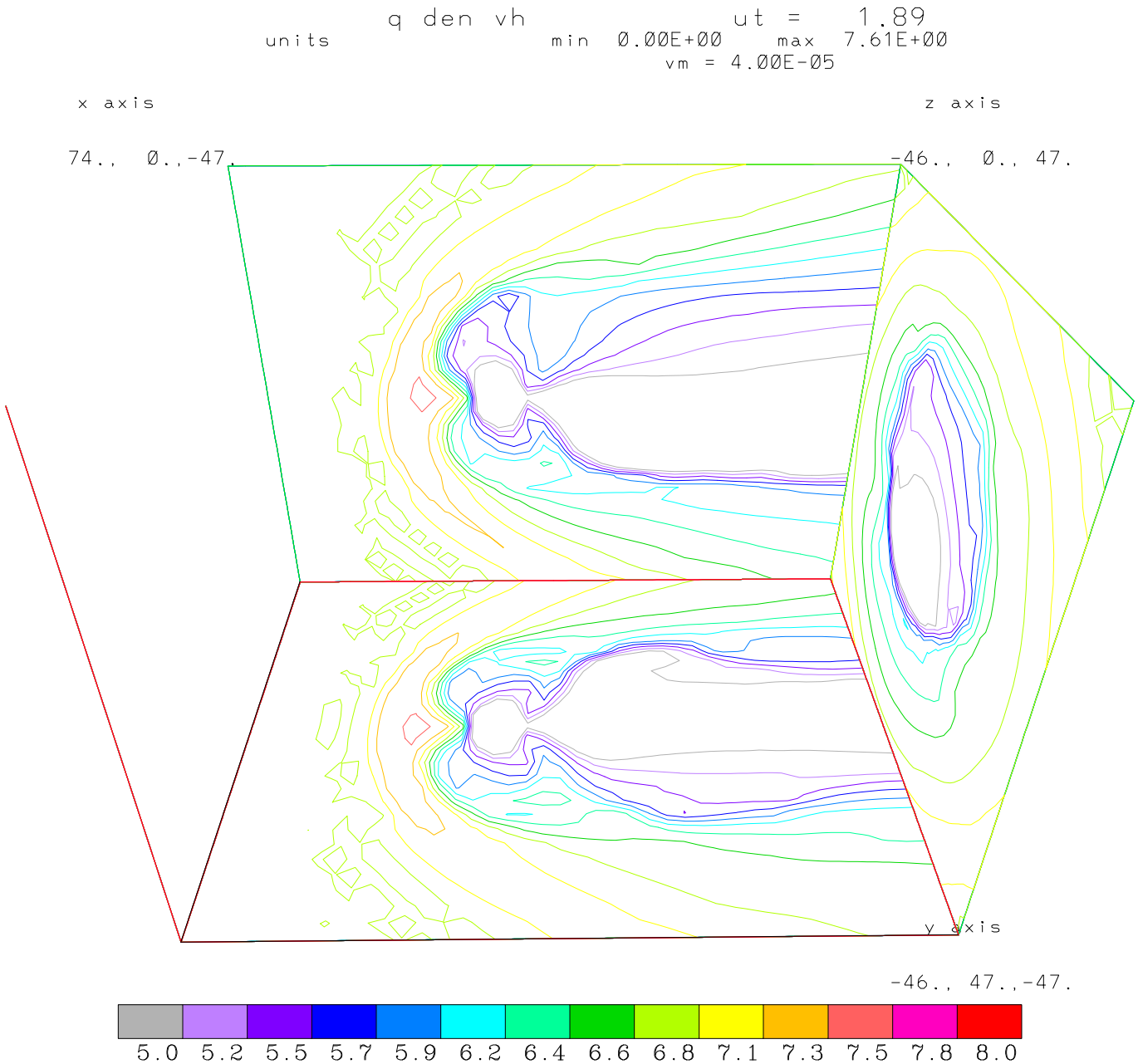
units 1.12E-01 min 0.00E+00 max 7.05E-02

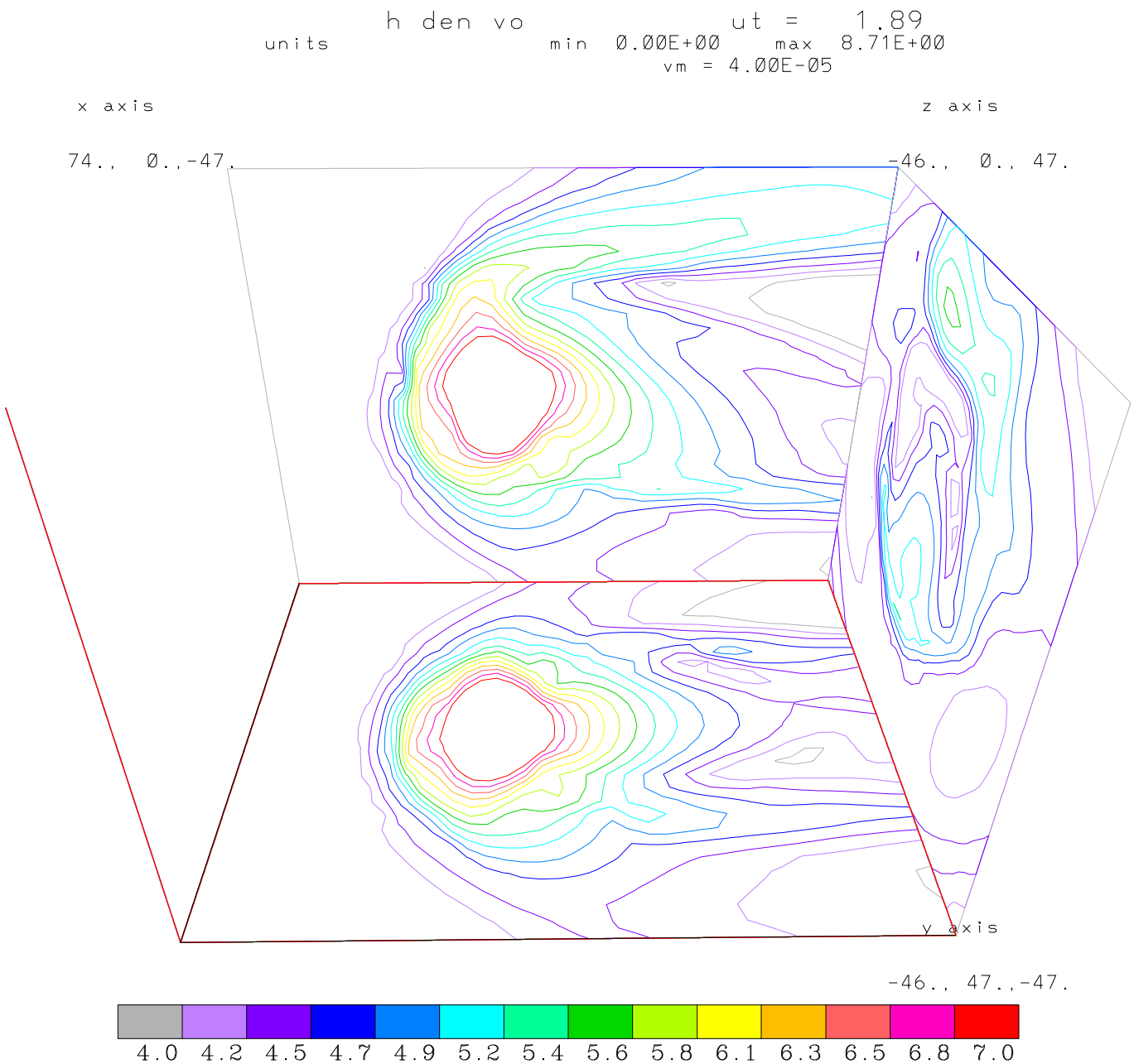
vm = 4.00E-05

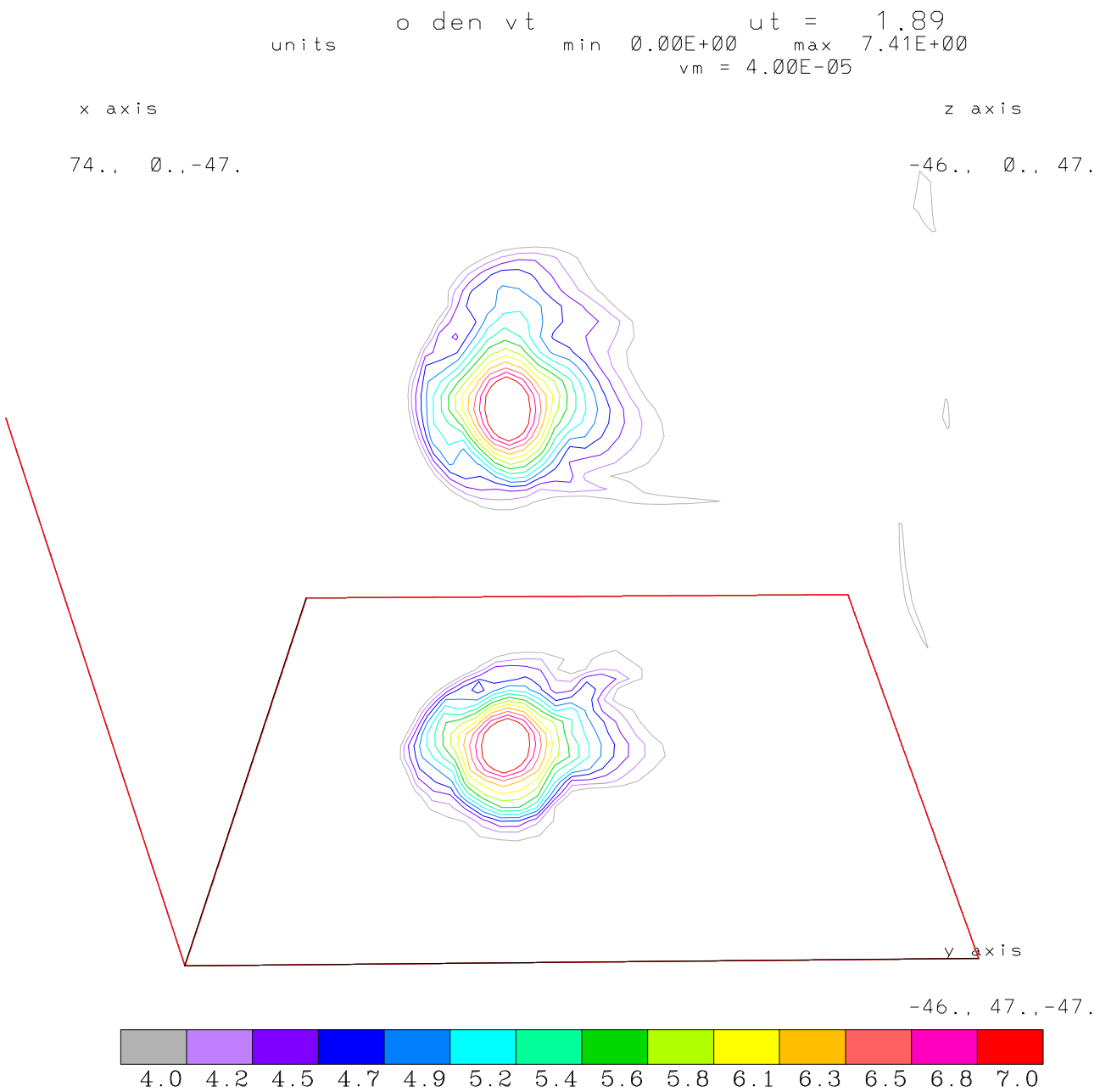
x axis z axis

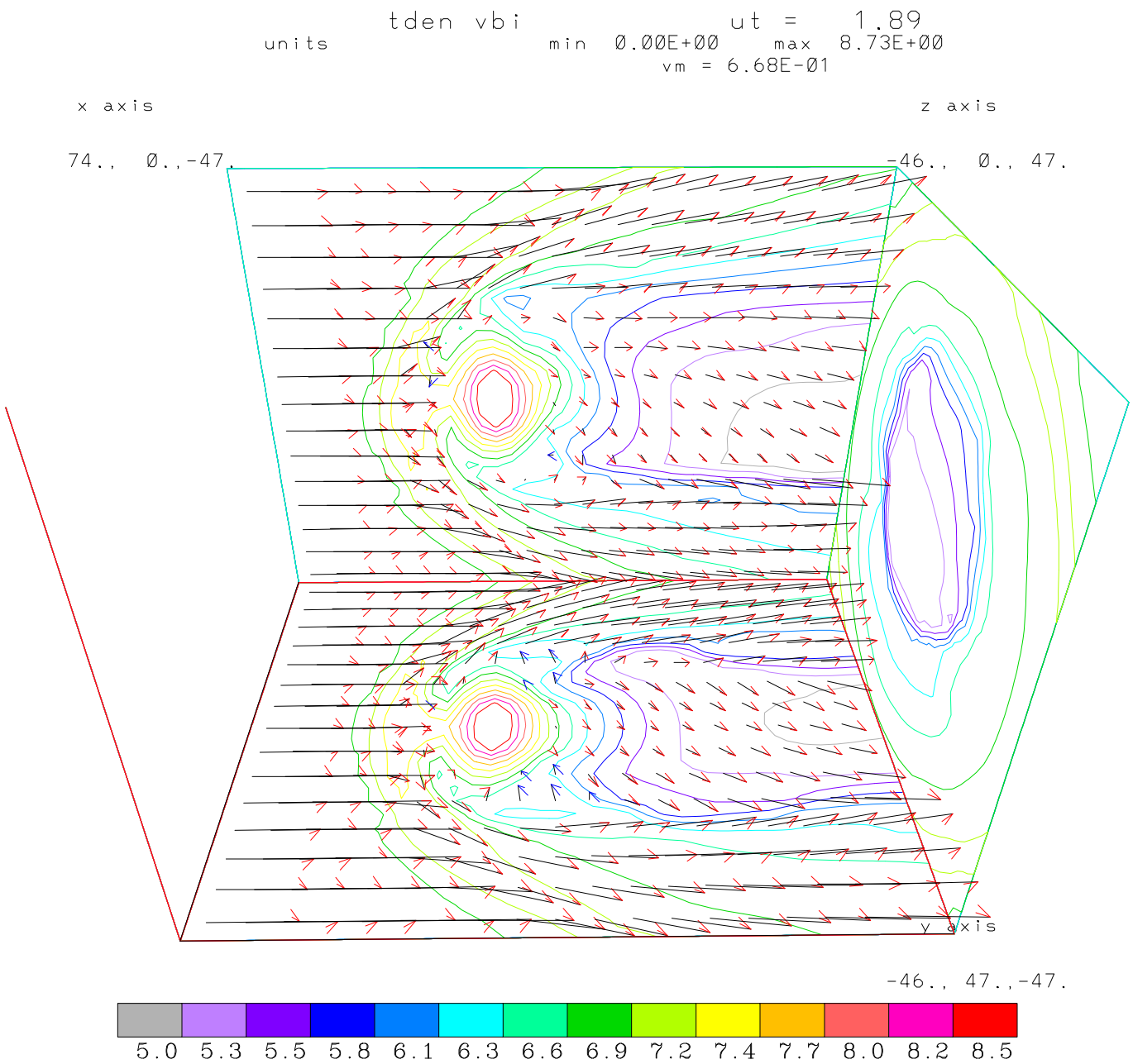
74., 0.,-47. -46., 0., 47.

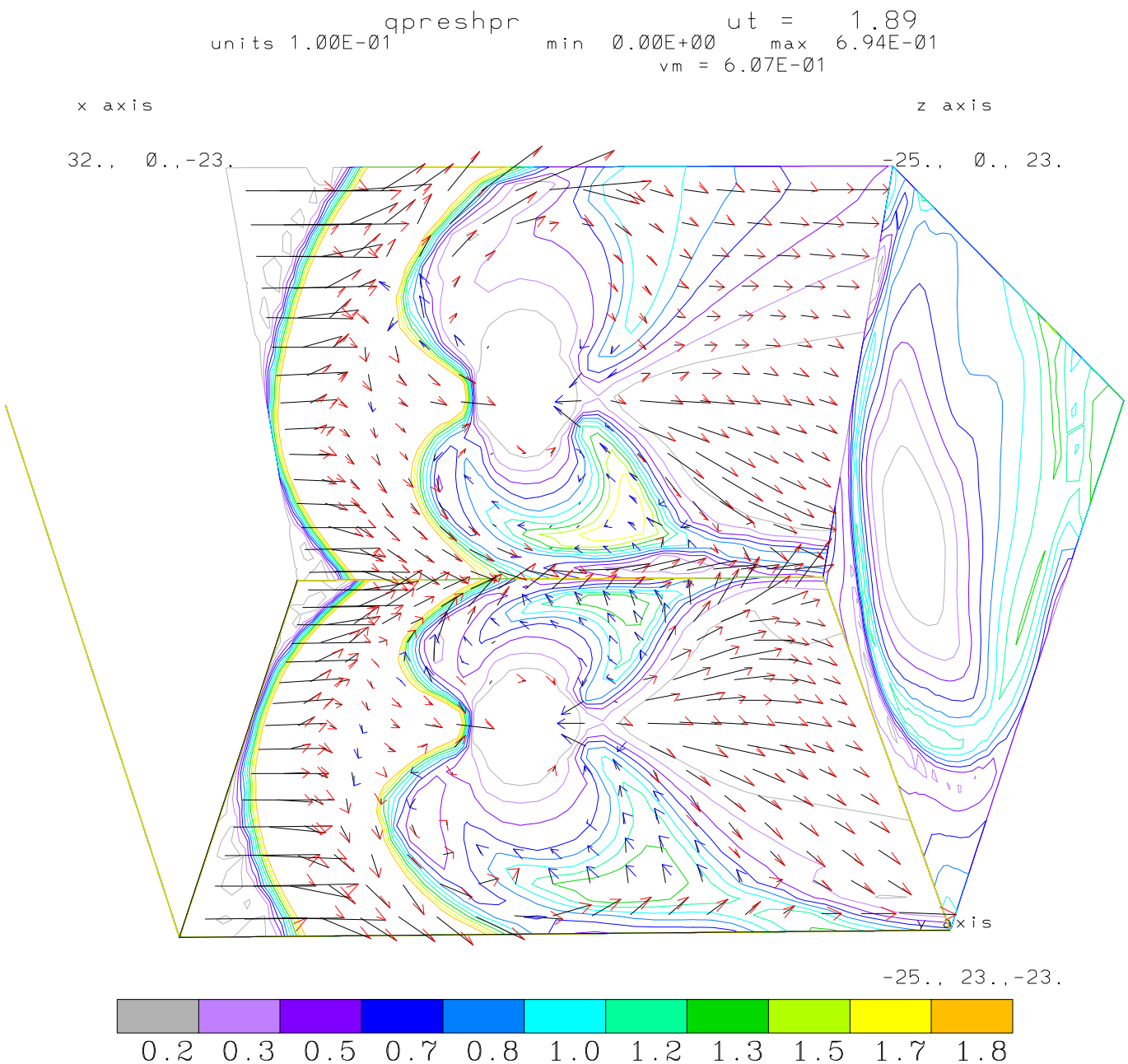


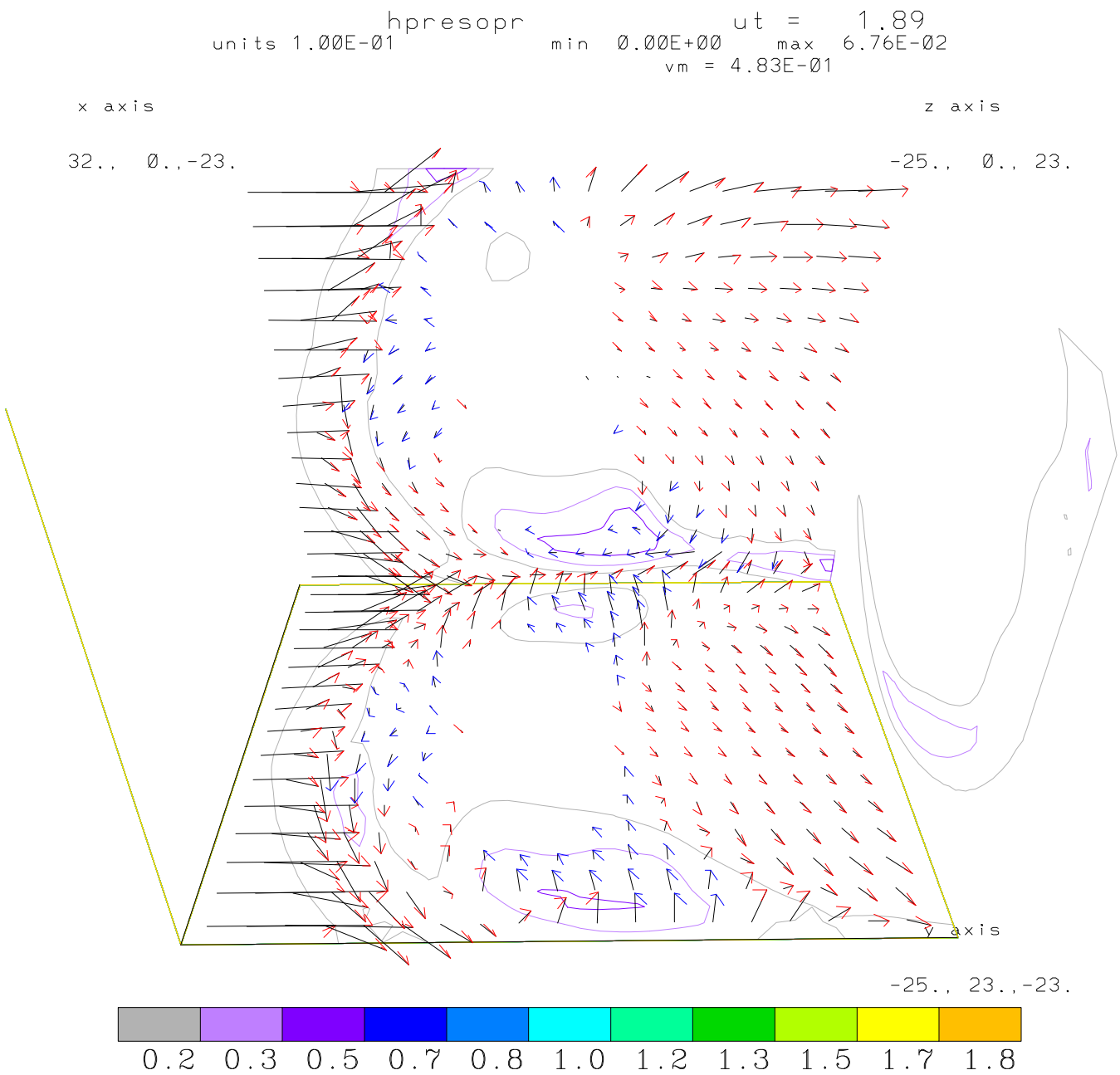

q den vh
ut = 1.89
units
min 0.00E+00
max 7.61E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0


h den vo ut = 1.89
units min 0.00E+00 max 8.71E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


o den vt
ut = 1.89
units
min 0.00E+00
max 7.41E+00
vm = 4.00E-05
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.89
units
min 0.00E+00
max 8.73E+00
vm = 6.68E-01
x axis
z axis
74., 0.,-47.
-46., 0., 47.
y axis
-46., 47.,-47.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


qpreshpr
ut = 1.89
units 1.00E-01
min 0.00E+00
max 6.94E-01
vm = 6.07E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8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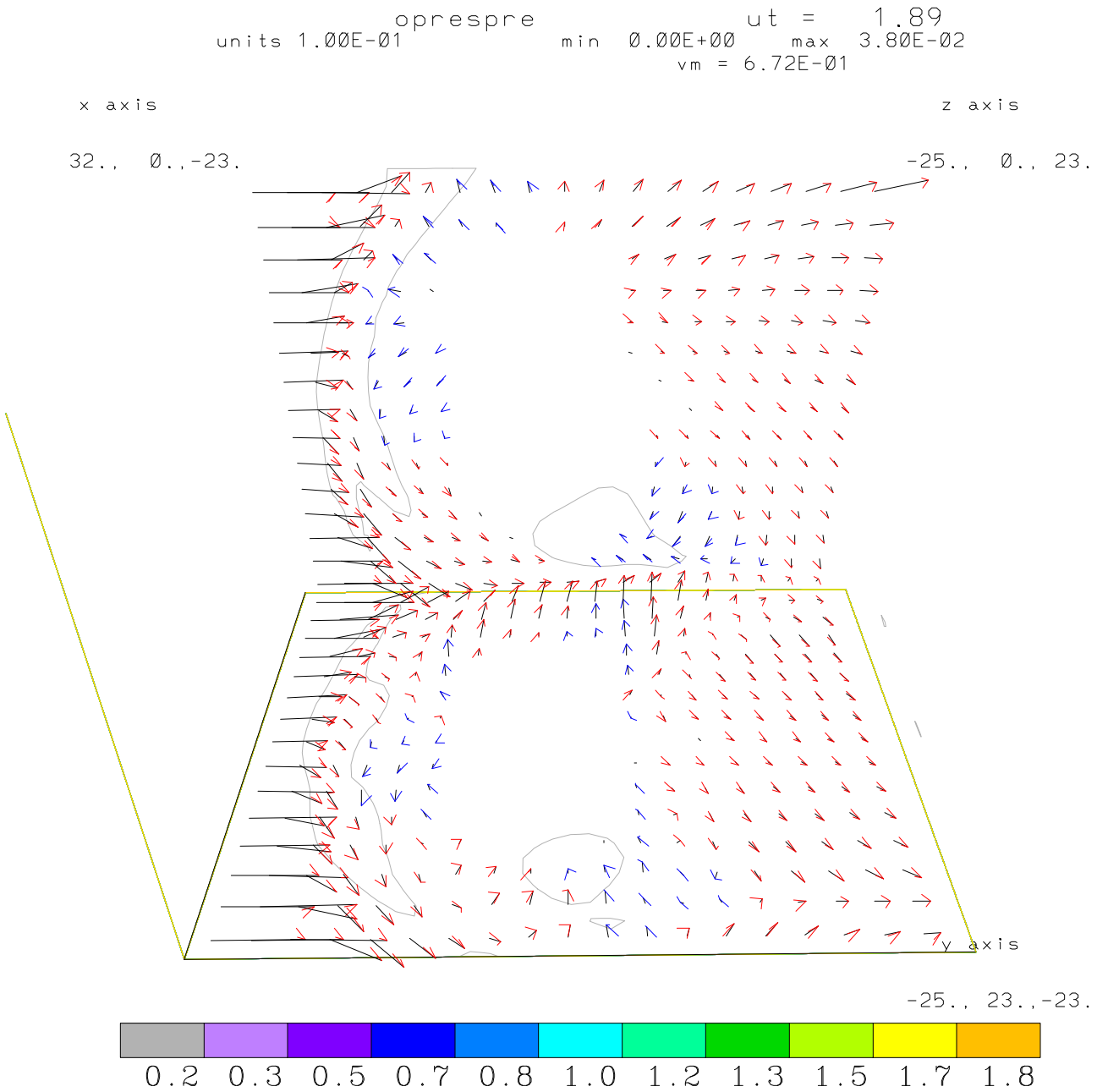
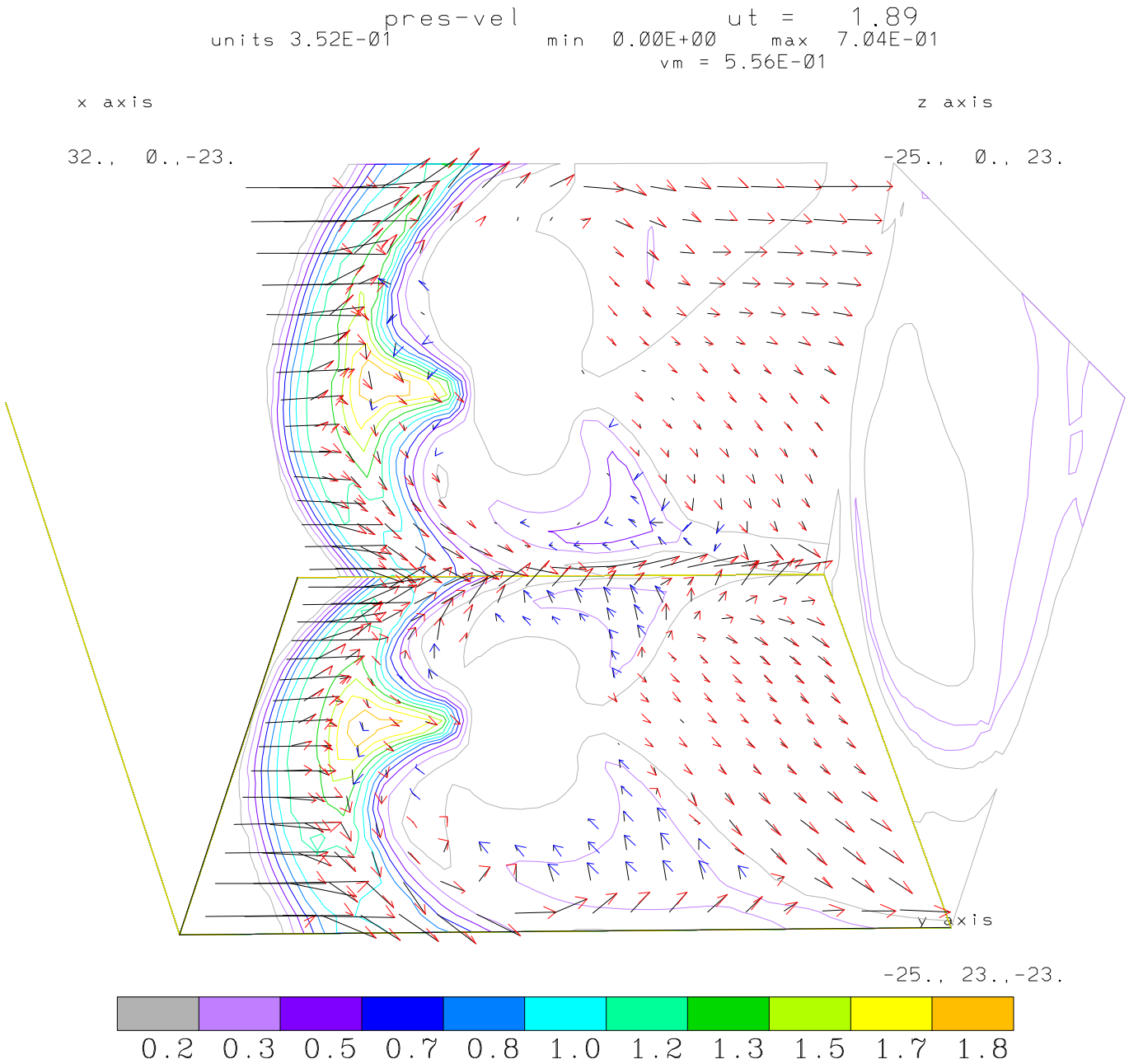
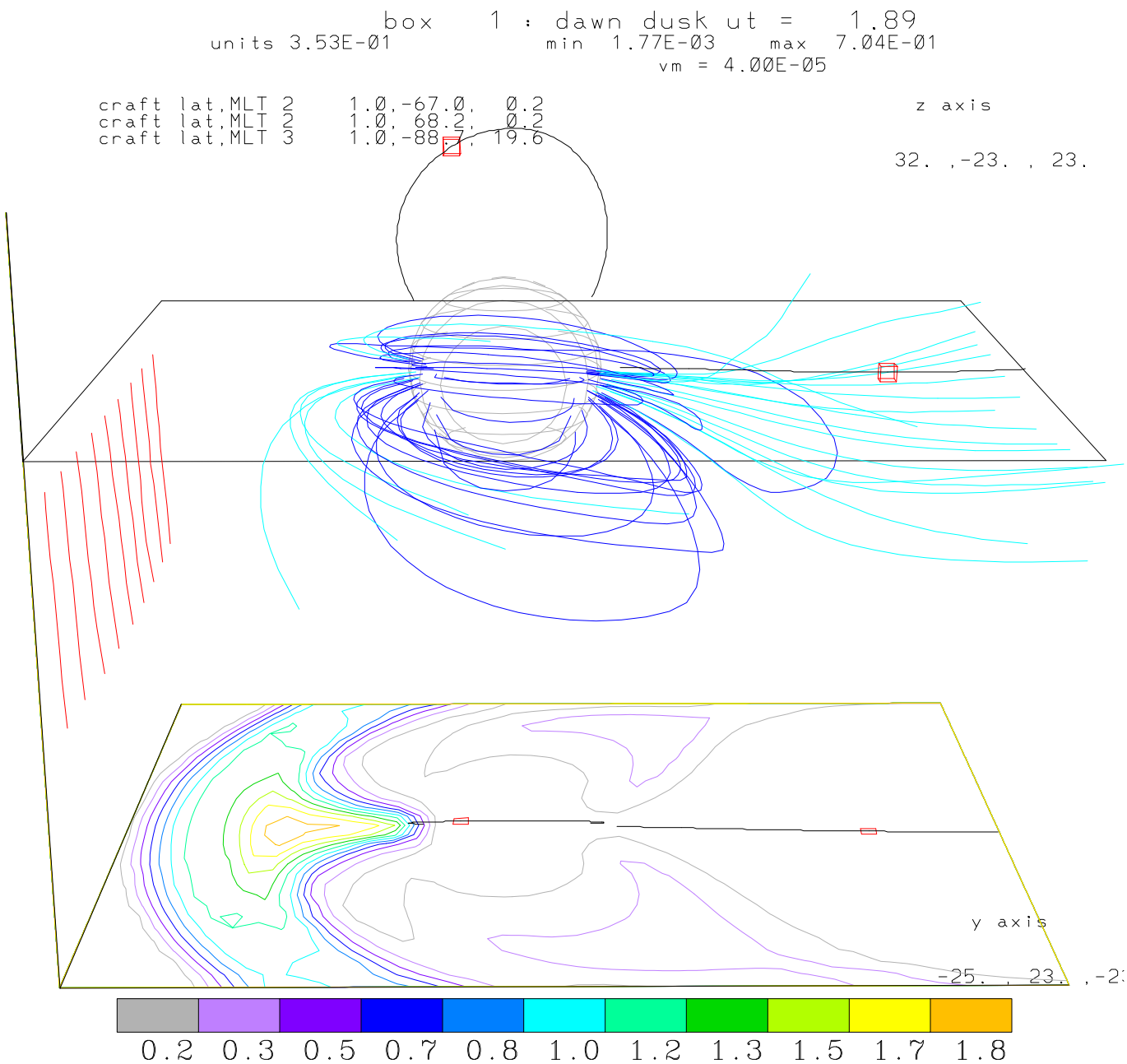
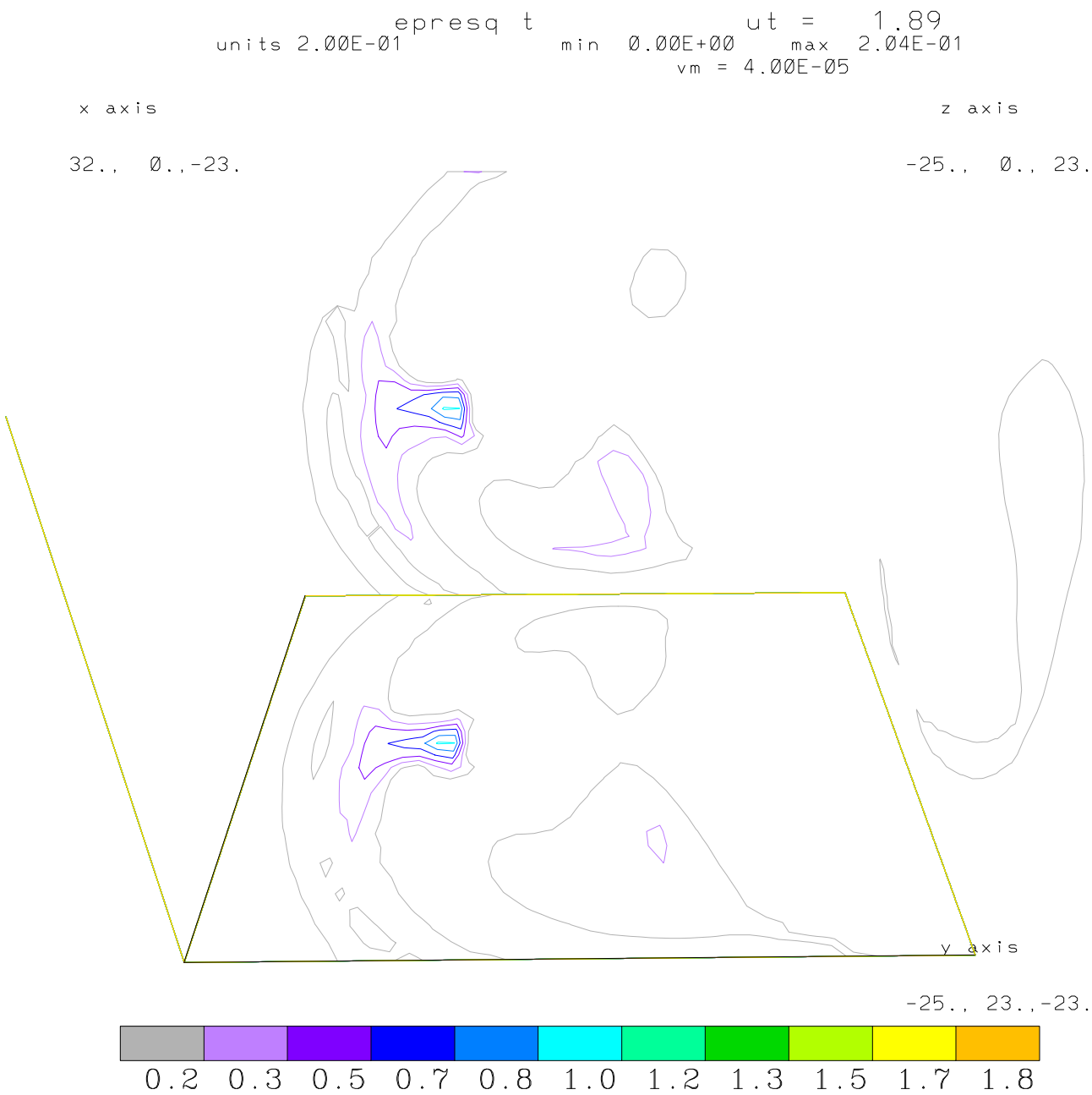
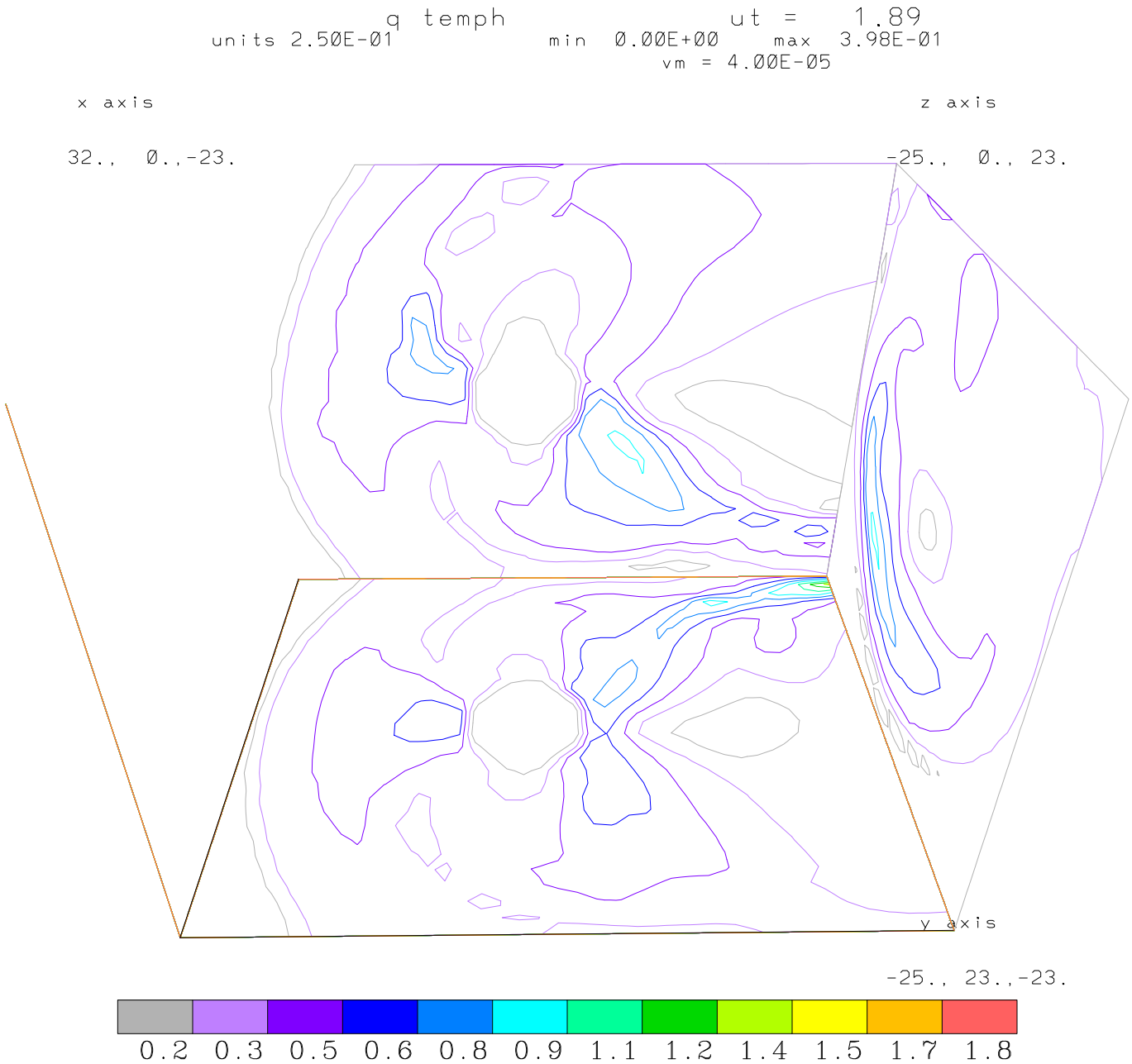
ut = 1.89
units 1.00E-01
min 0.00E+00
max 6.76E-02
vm = 4.83E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

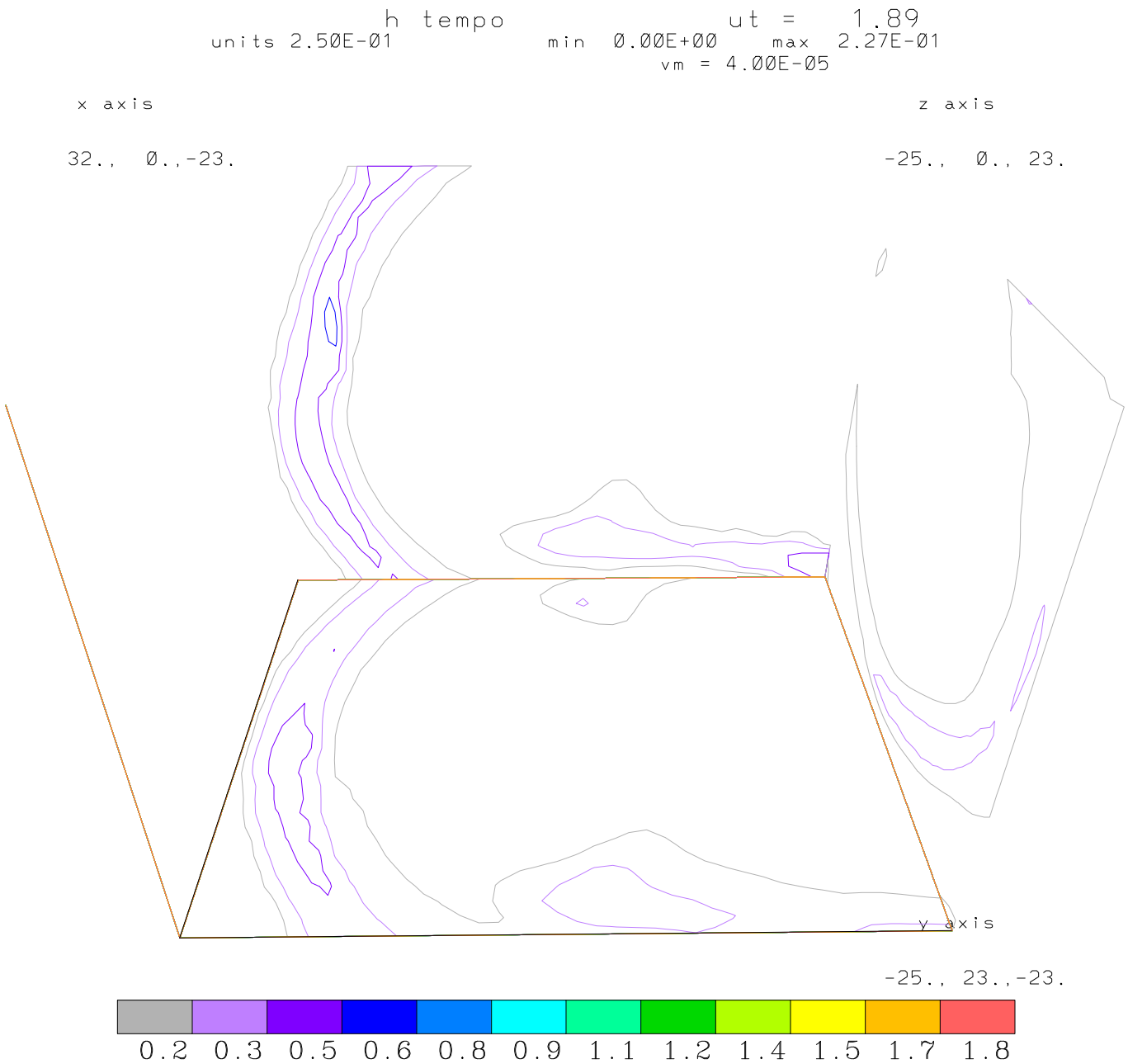

oprespre
ut = 1.89
units 1.00E-01
min 0.00E+00
max 3.80E-02
vm = 6.72E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

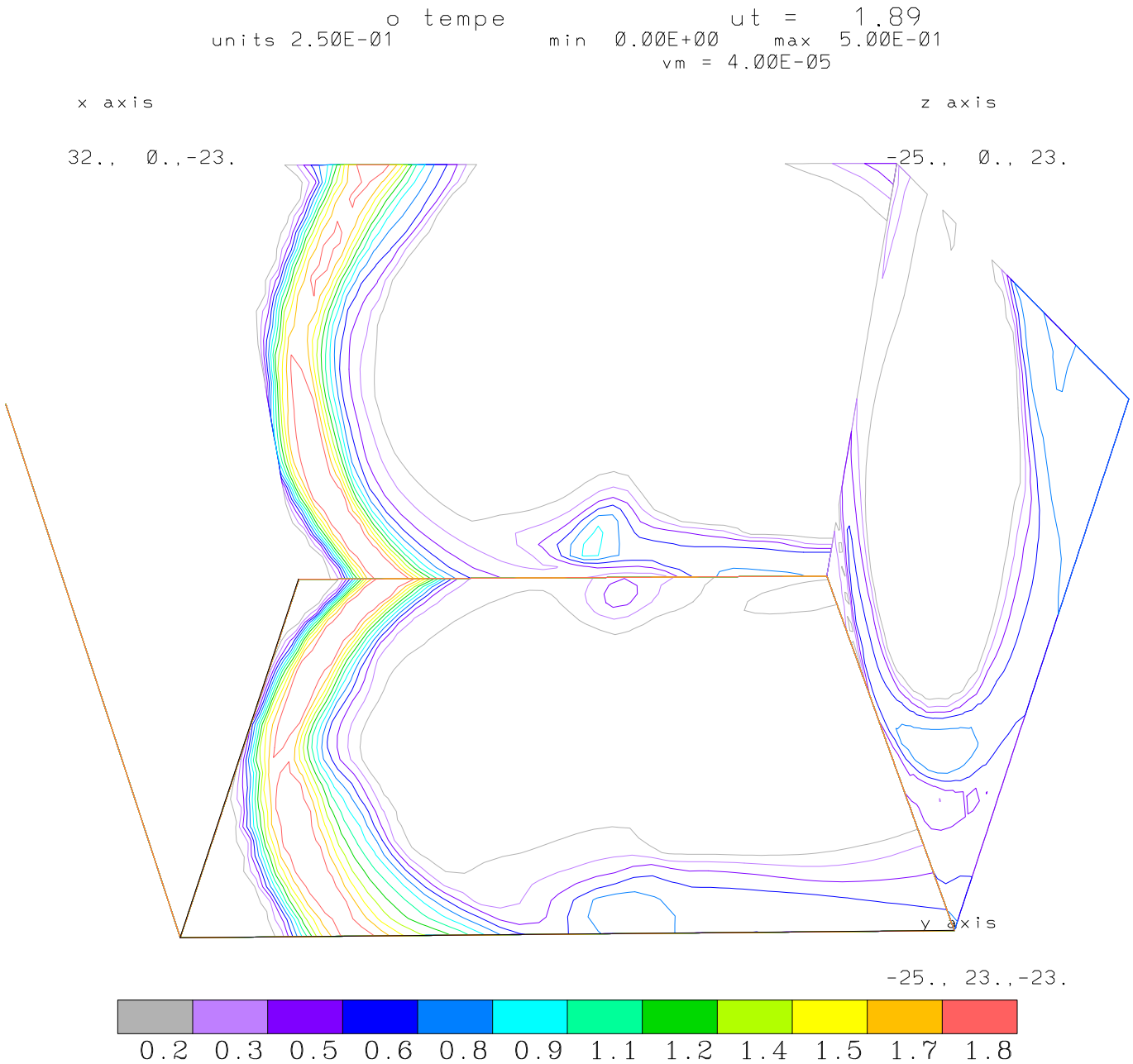

pres-vel
ut = 1.89
units 3.52E-01
min 0.00E+00
max 7.04E-01
vm = 5.56E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

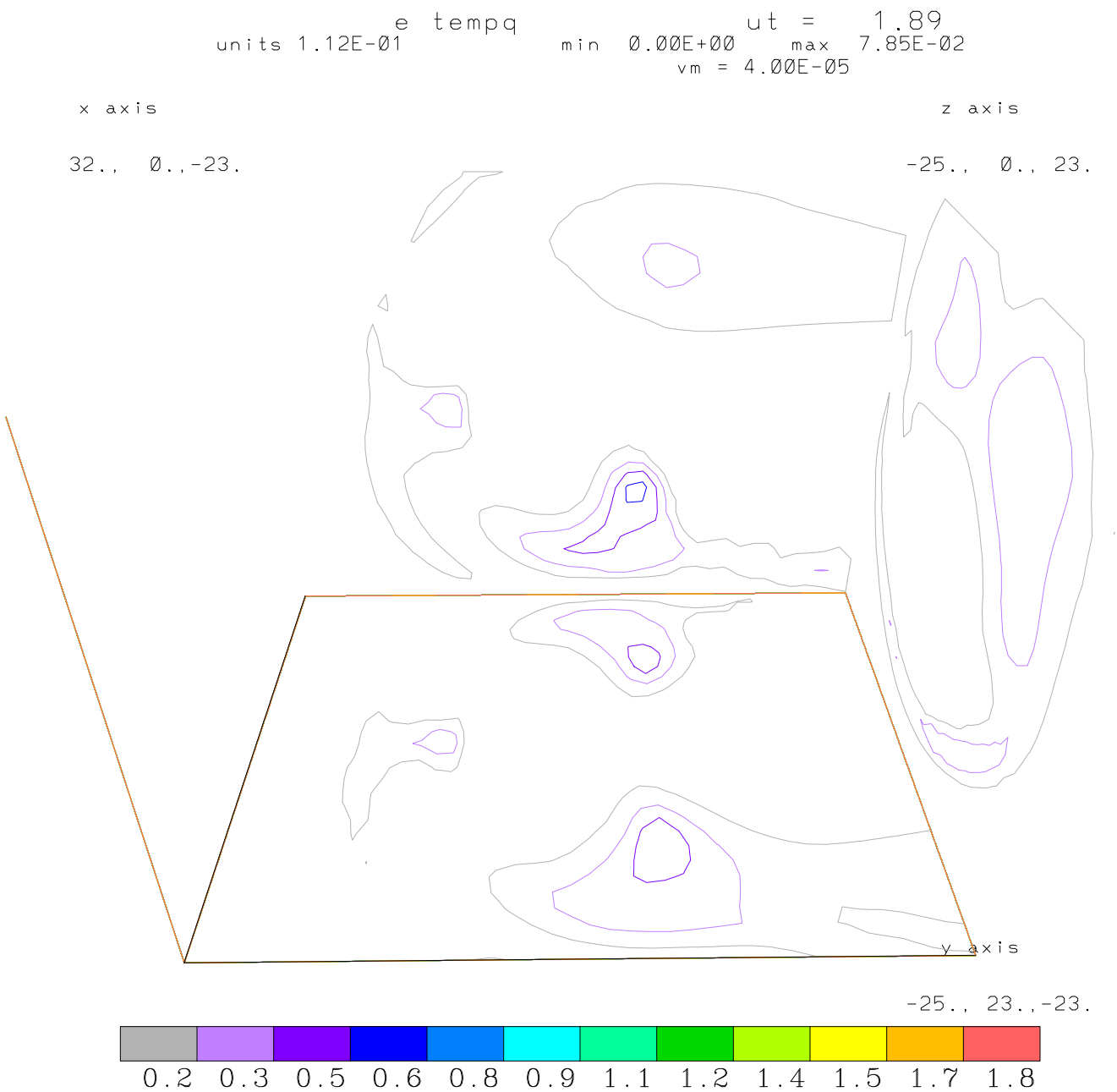

box 1 : dawn dusk ut = 1.89
units 3.53E-01
min 1.77E-03 max 7.04E-01
vm = 4.00E-05
craft lat,MLT 2 1.0,-67.0, 0.2
craft lat,MLT 2 1.0, 68.2, 0.2
craft lat,MLT 3 1.0,-88.7, 19.6
z axis
32. ,-23. , 23.
y axis
-25. , 23. ,-2
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

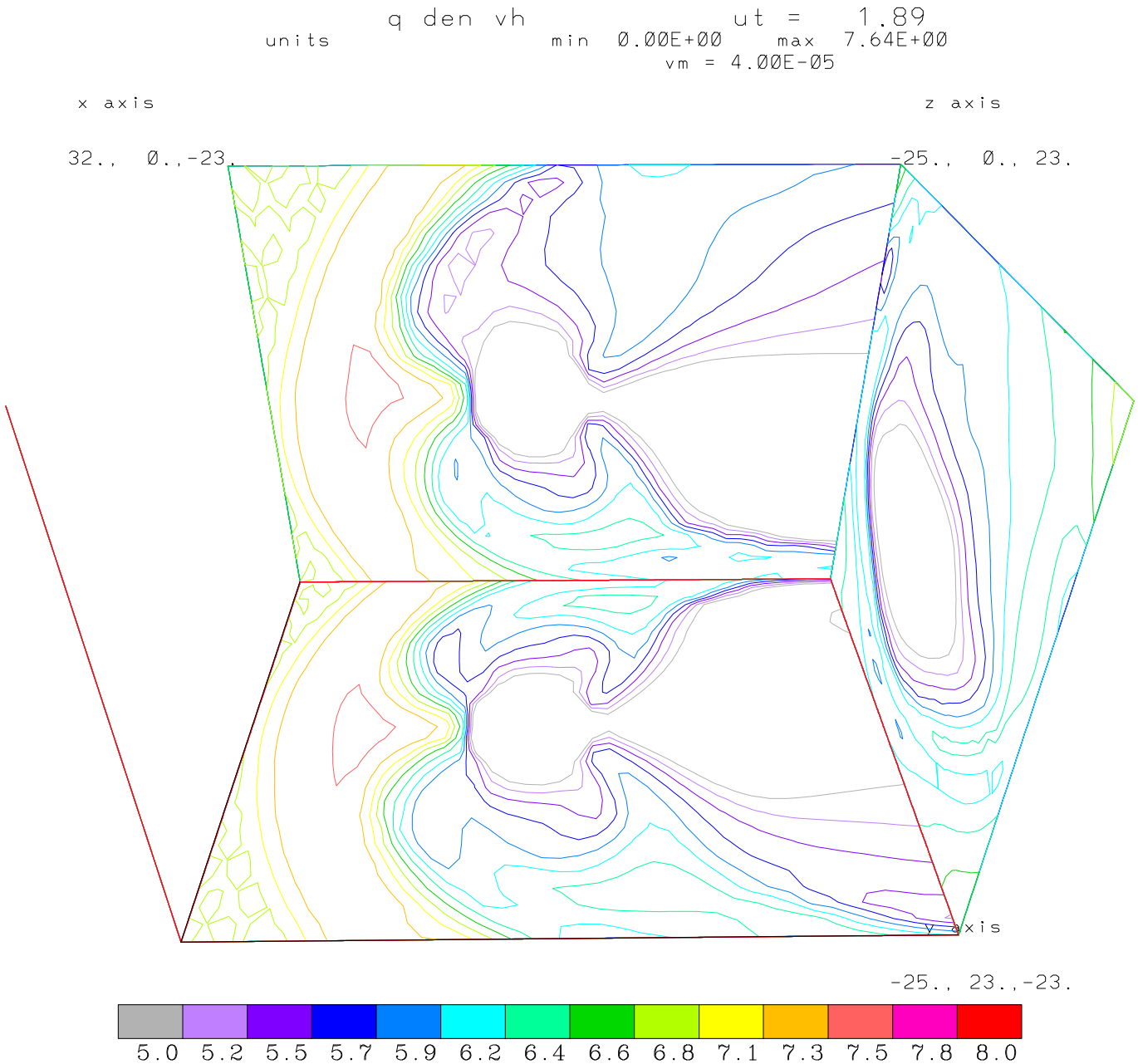

epresq t
ut = 1.89
units 2.00E-01
min 0.00E+00
max 2.04E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2
0.3
0.5
0.7
0.8
1.0
1.2
1.3
1.5
1.7
1.8

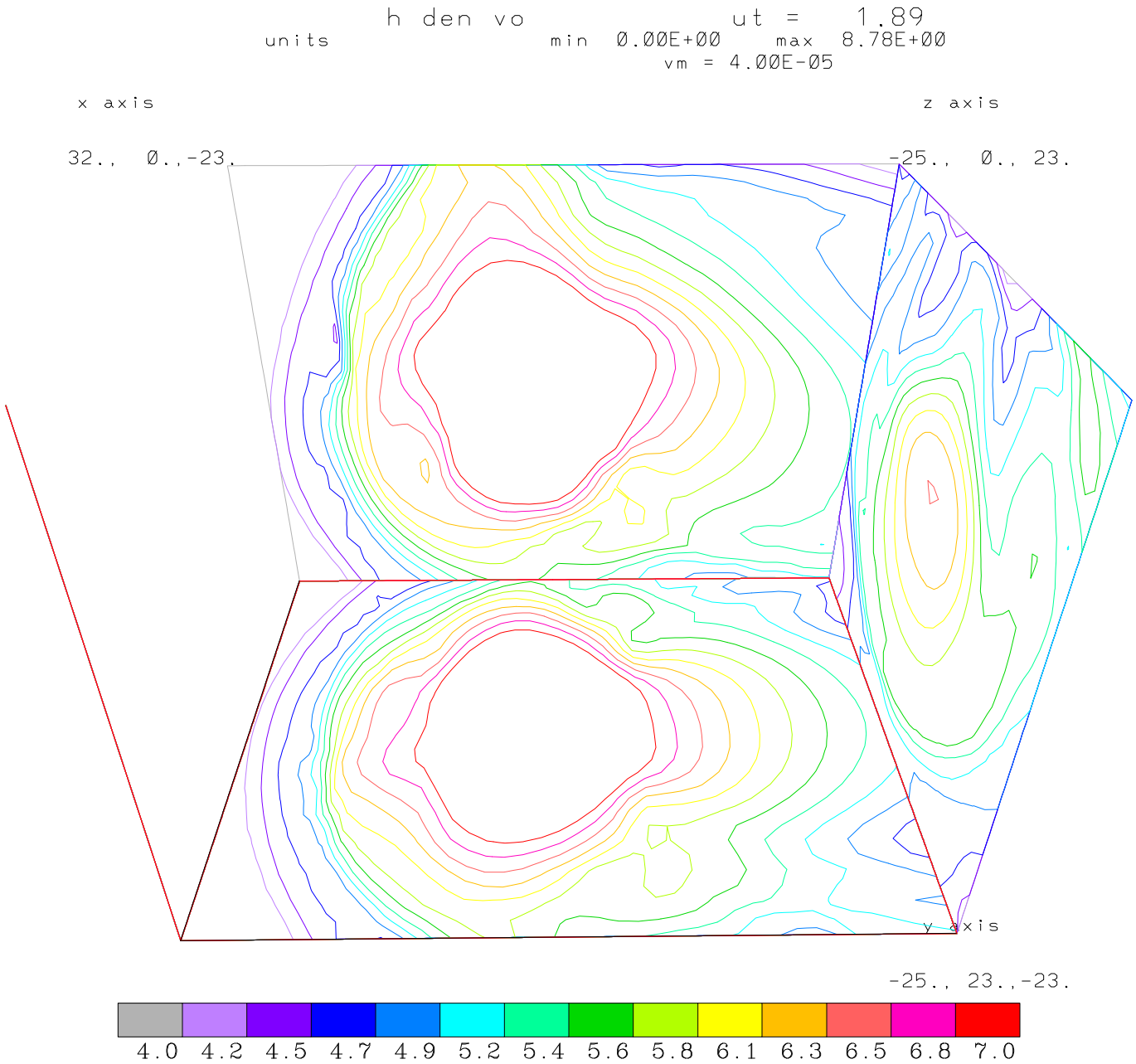

q temph
ut = 1.89
units 2.50E-01
min 0.00E+00
max 3.98E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


h tempo
ut = 1.89
units 2.50E-01
min 0.00E+00
max 2.27E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


o tempe
ut = 1.89
units 2.50E-01
min 0.00E+00
max 5.00E-01
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


e tempq
ut = 1.89
units 1.12E-01
min 0.00E+00
max 7.85E-02
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
0.2 0.3 0.5 0.6 0.8 0.9 1.1 1.2 1.4 1.5 1.7 1.8


q den vh
ut = 1.89
units
min 0.00E+00
max 7.64E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
5.0 5.2 5.5 5.7 5.9 6.2 6.4 6.6 6.8 7.1 7.3 7.5 7.8 8.0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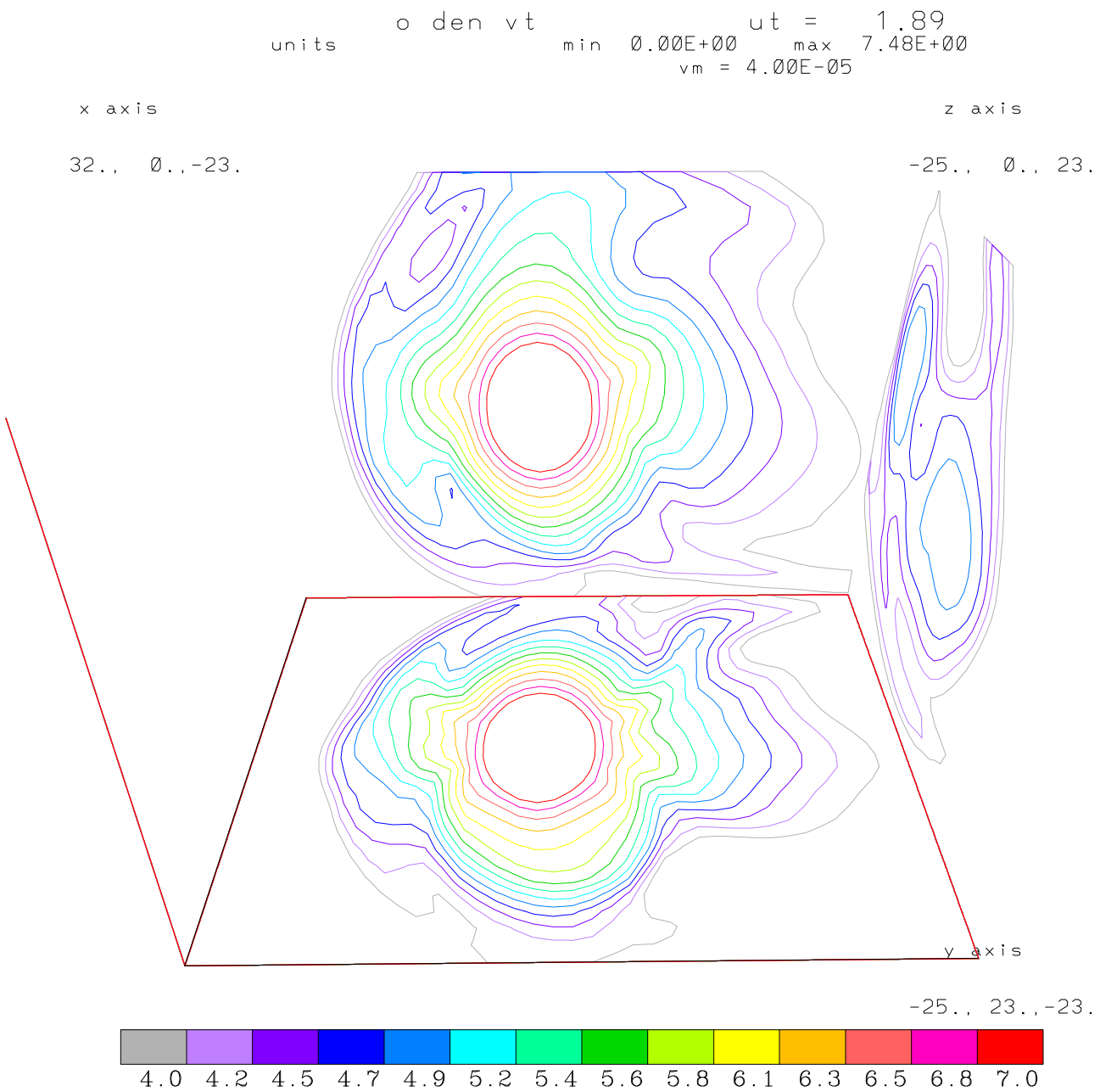
units min 0.00E+00 max 8.78E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0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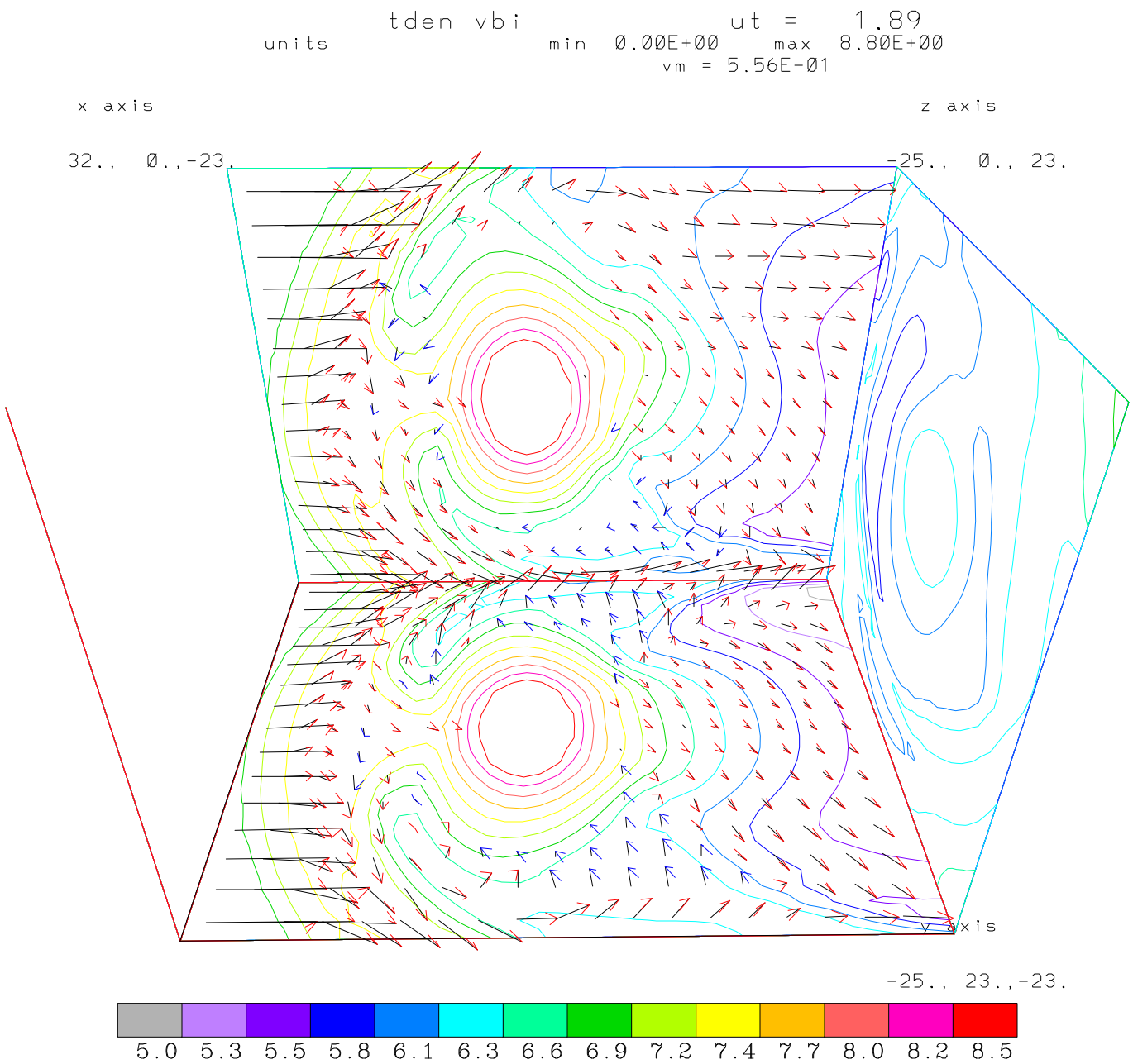
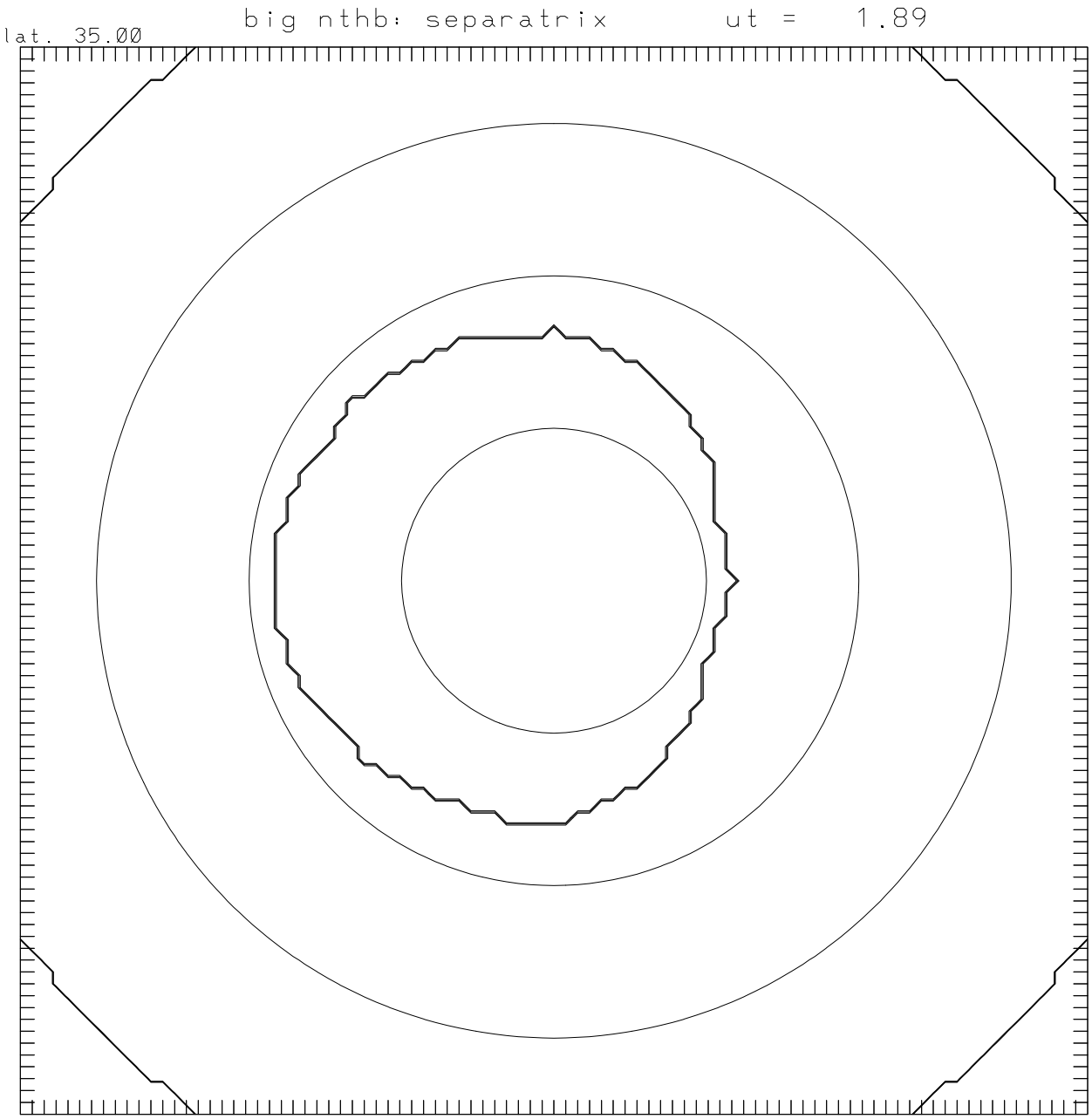
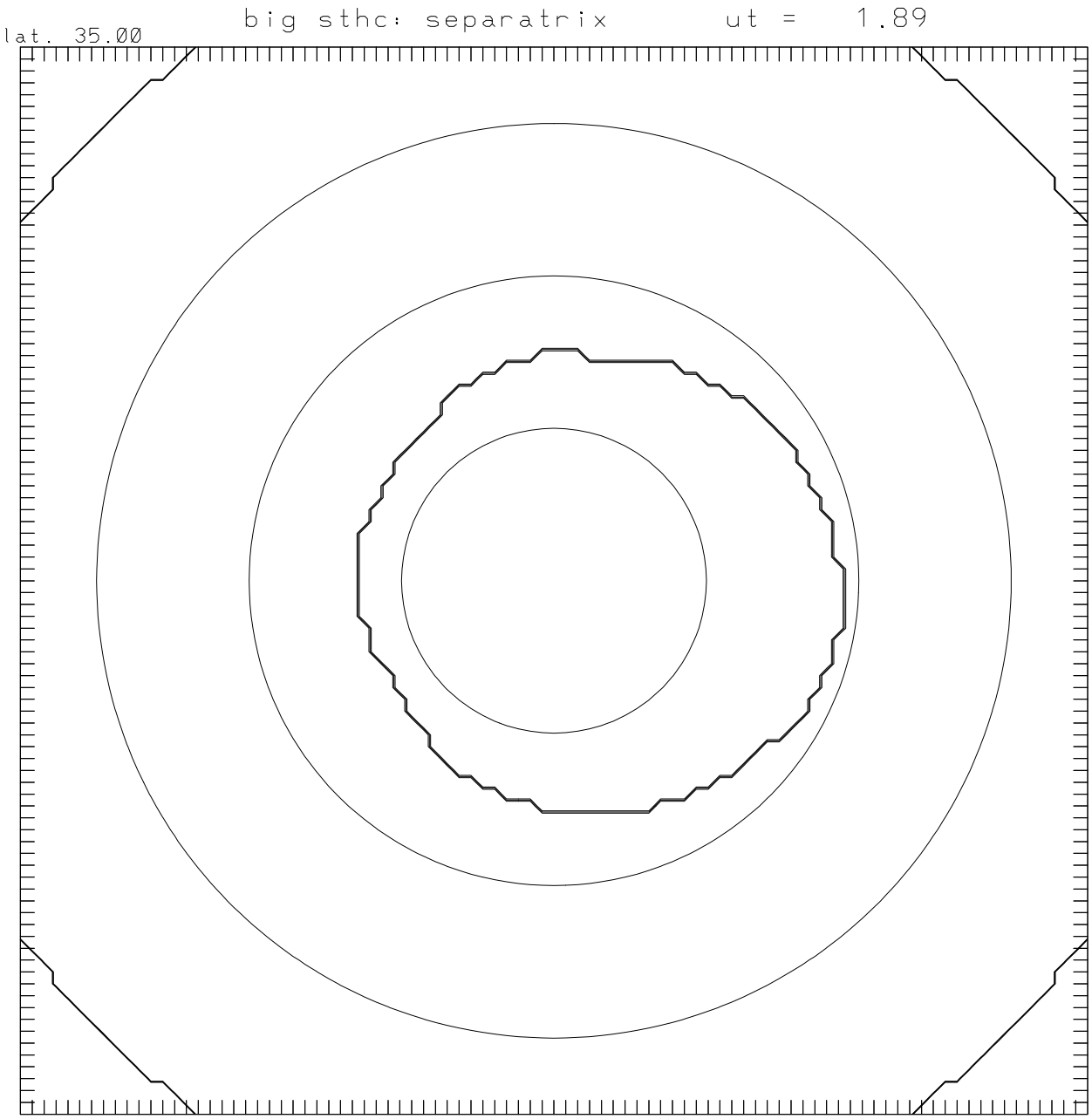
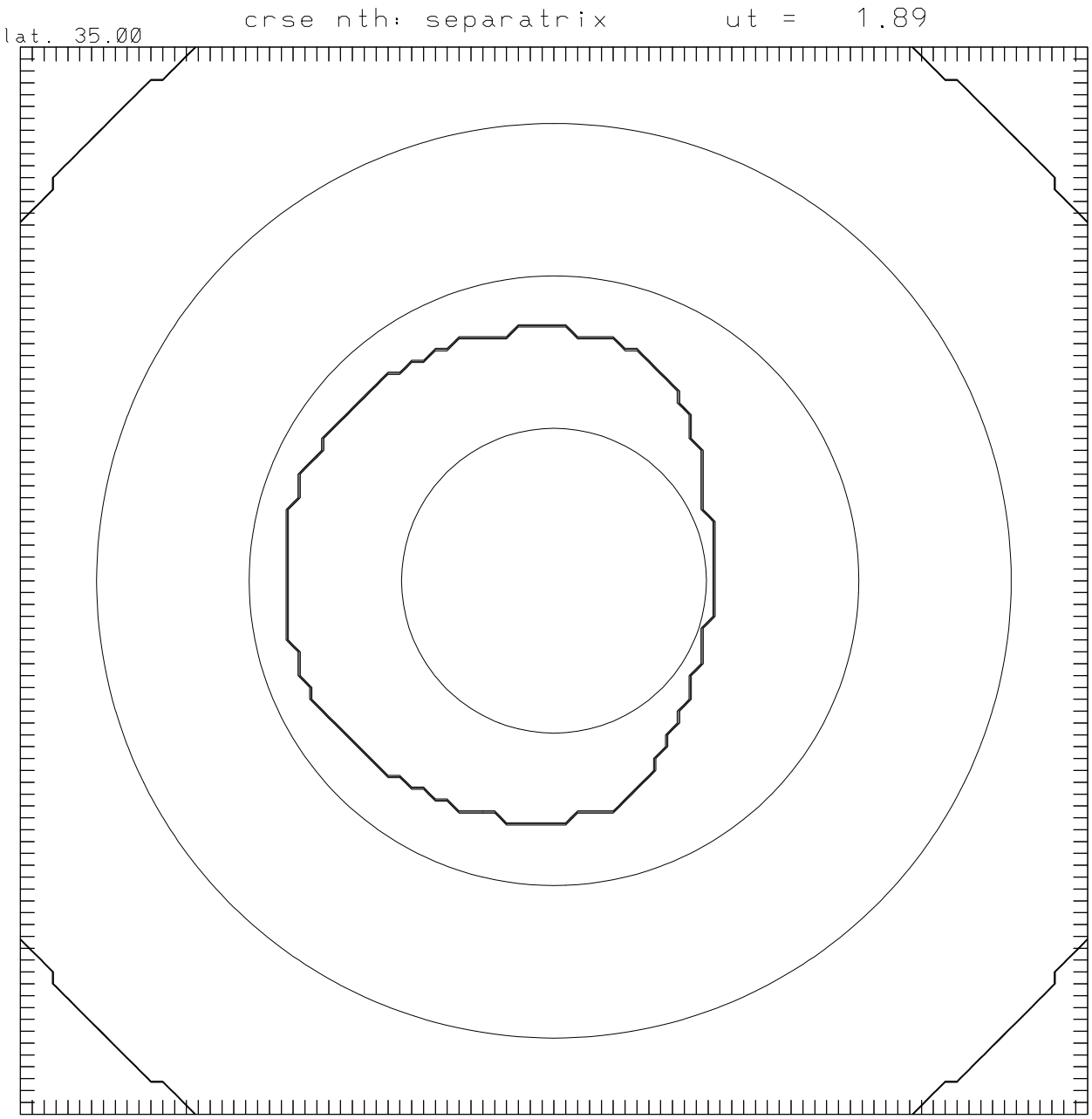
ut = 1.89
units
min 0.00E+00
max 7.48E+00
vm = 4.00E-05
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
4.0 4.2 4.5 4.7 4.9 5.2 5.4 5.6 5.8 6.1 6.3 6.5 6.8 7.0


tden vbi
ut = 1.89
units
min 0.00E+00
max 8.80E+00
vm = 5.56E-01
x axis
z axis
32., 0.,-23.
-25., 0., 23.
y axis
-25., 23.,-23.
5.0 5.3 5.5 5.8 6.1 6.3 6.6 6.9 7.2 7.4 7.7 8.0 8.2 8.5


big nthb: separatrix ut = 1.89
lat. 35.00


big sthc: separatrix ut = 1.89
lat. 35.00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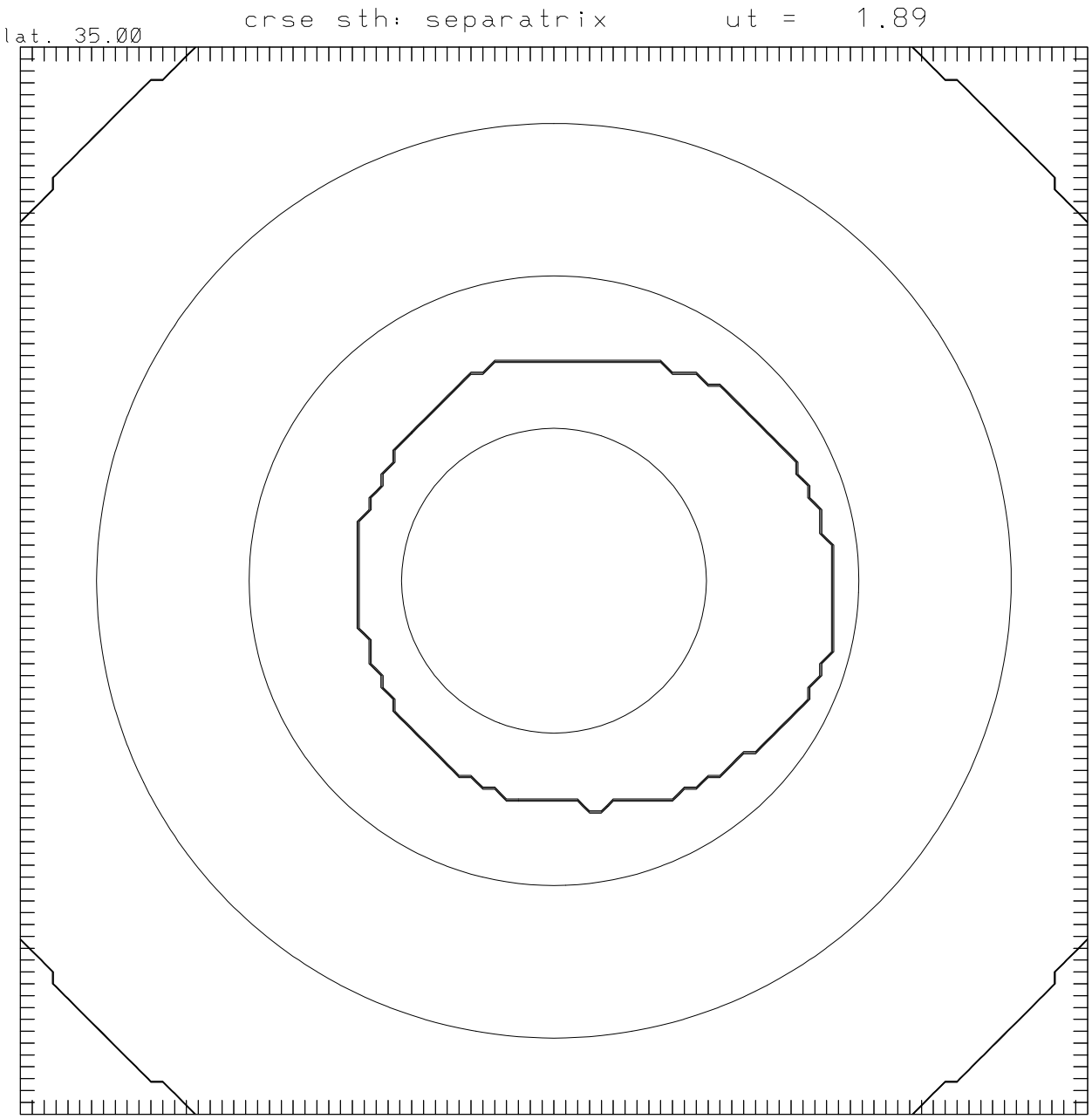
lat. 35.00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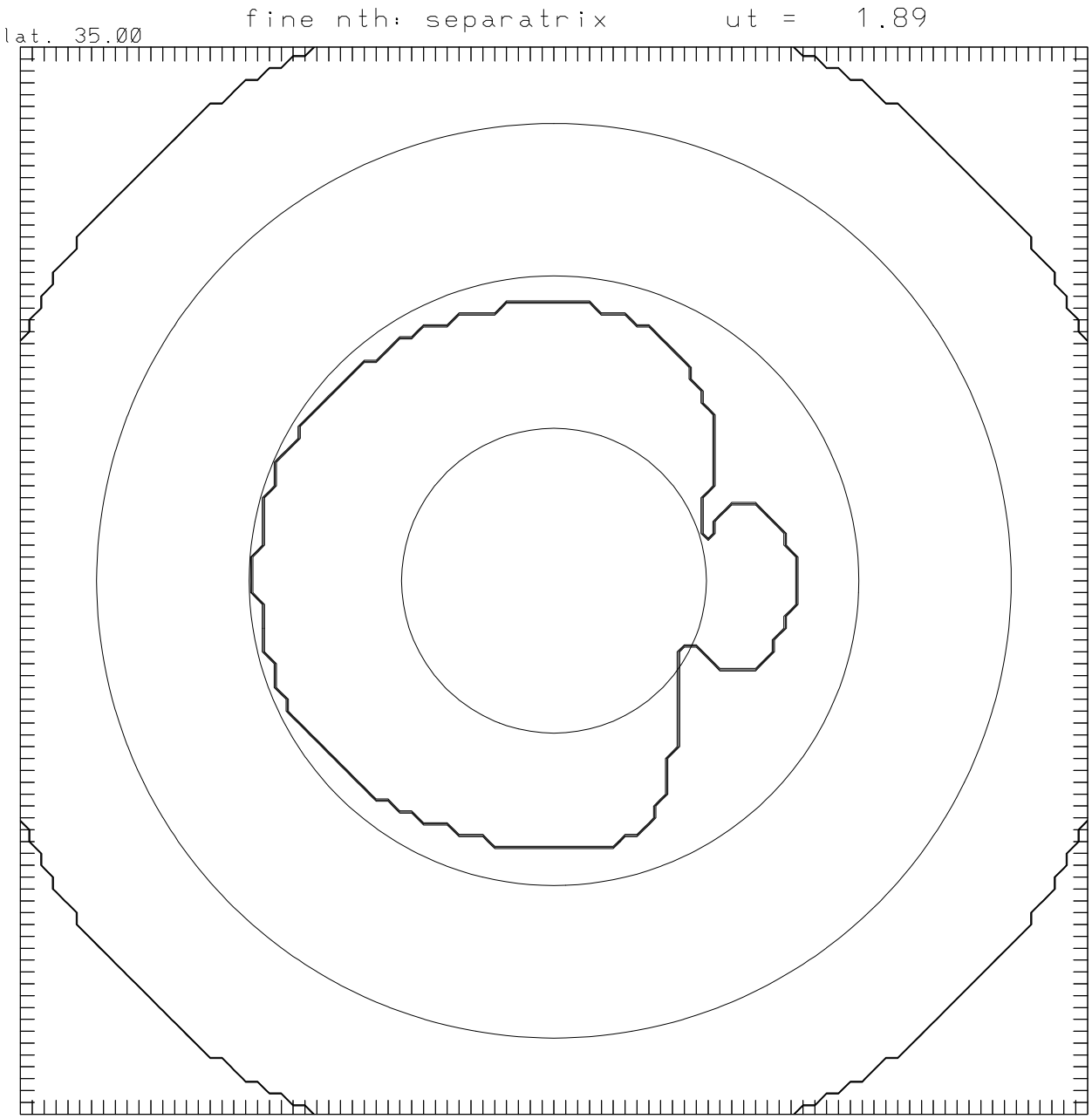
lat. 35.00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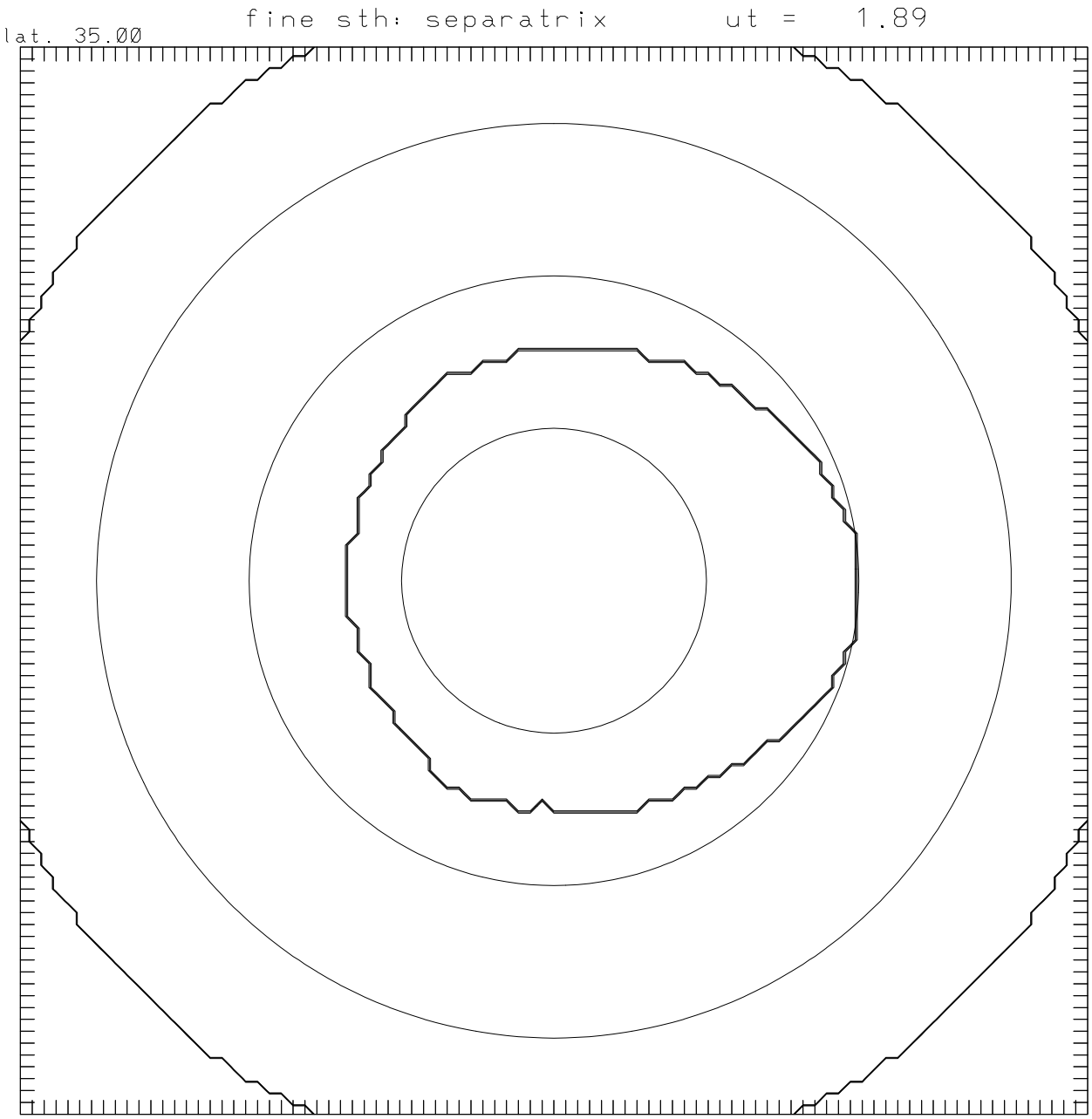
lat. 35.00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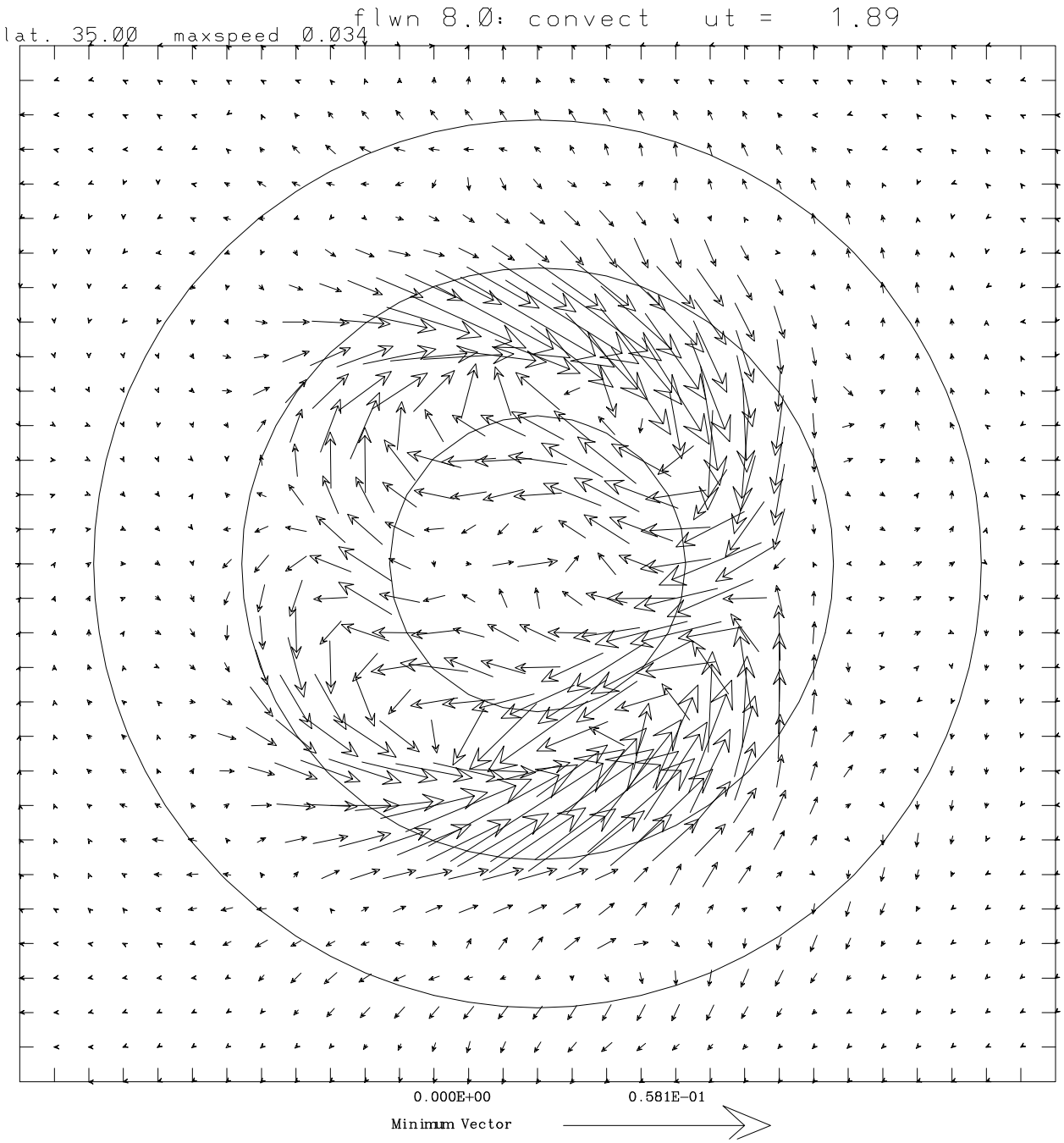
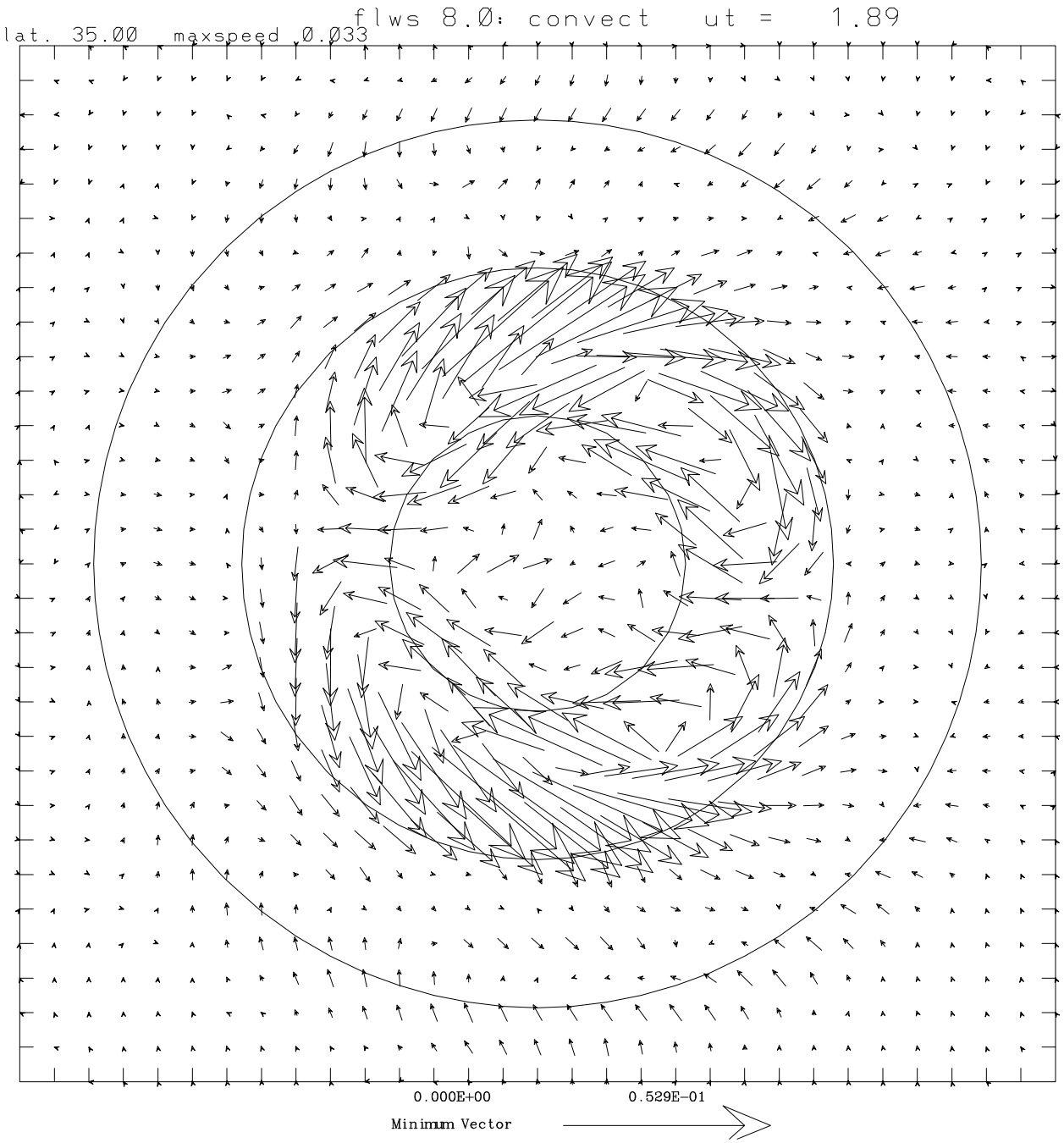
lat. 35.00


flwn 8.0: convect ut = 1.89
lat. 35.00 maxspeed 0.034
0.000E+00
0.581E-01
Minimum Vector


flws 8.0: convect ut = 1.89
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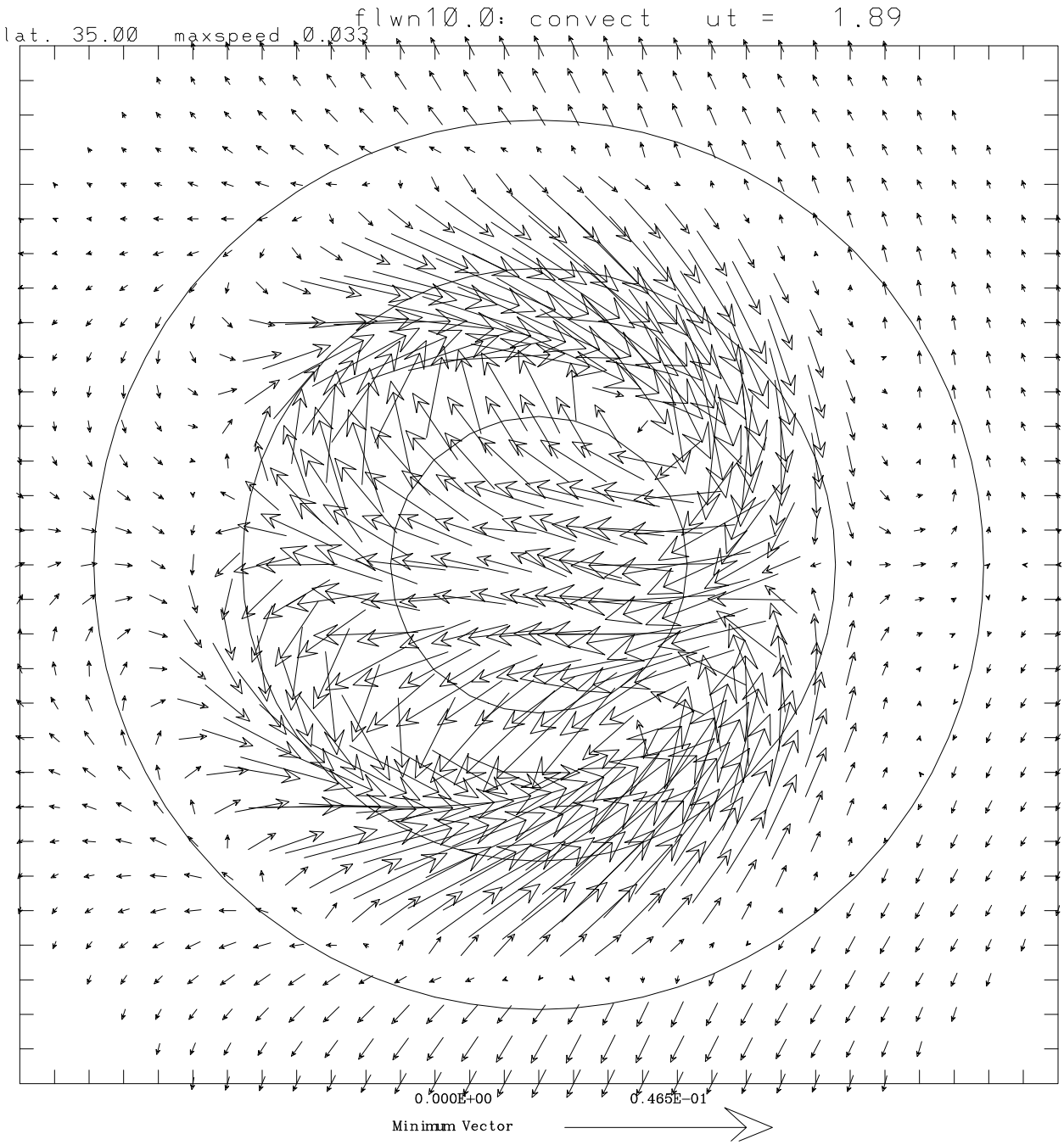
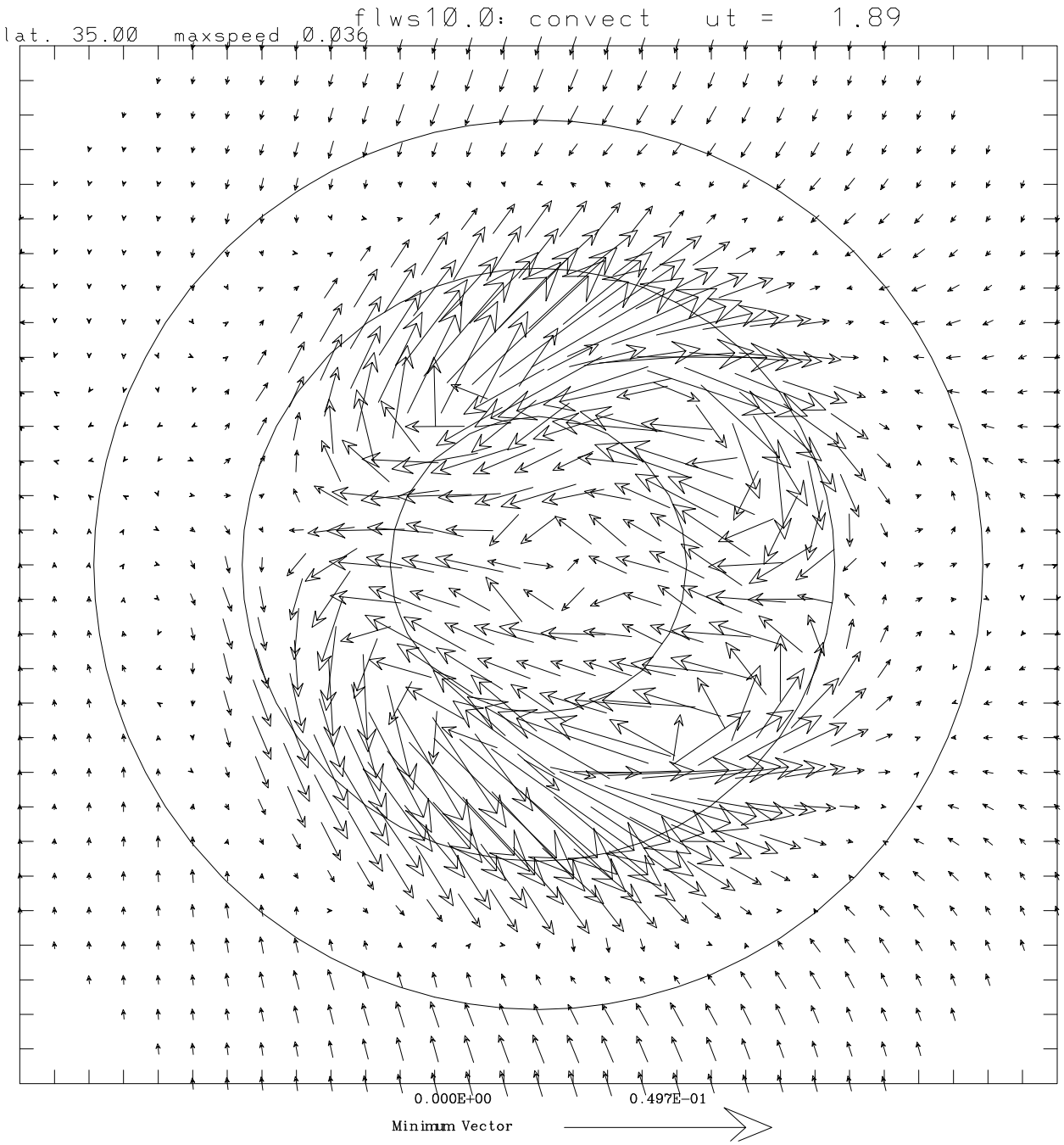

flwn10.0: convect ut = 1.89
lat. 35.00 maxspeed 0.033
0.000E+00
0.465E-01
Minimum Vector


flws10.0: convect ut = 1.89
lat. 35.00 maxspeed 0.036
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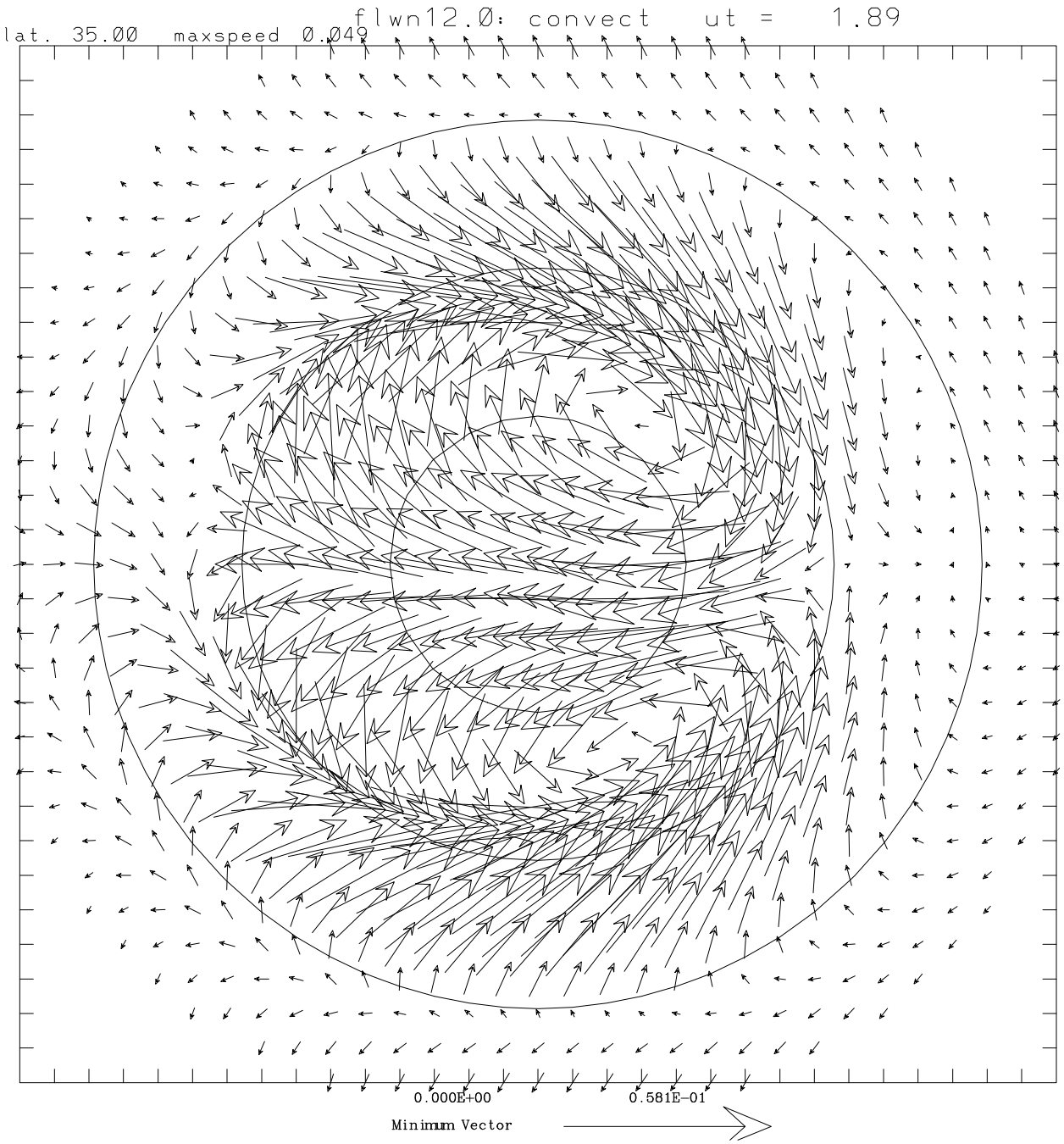
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lat. 35.00 maxspeed 0.049
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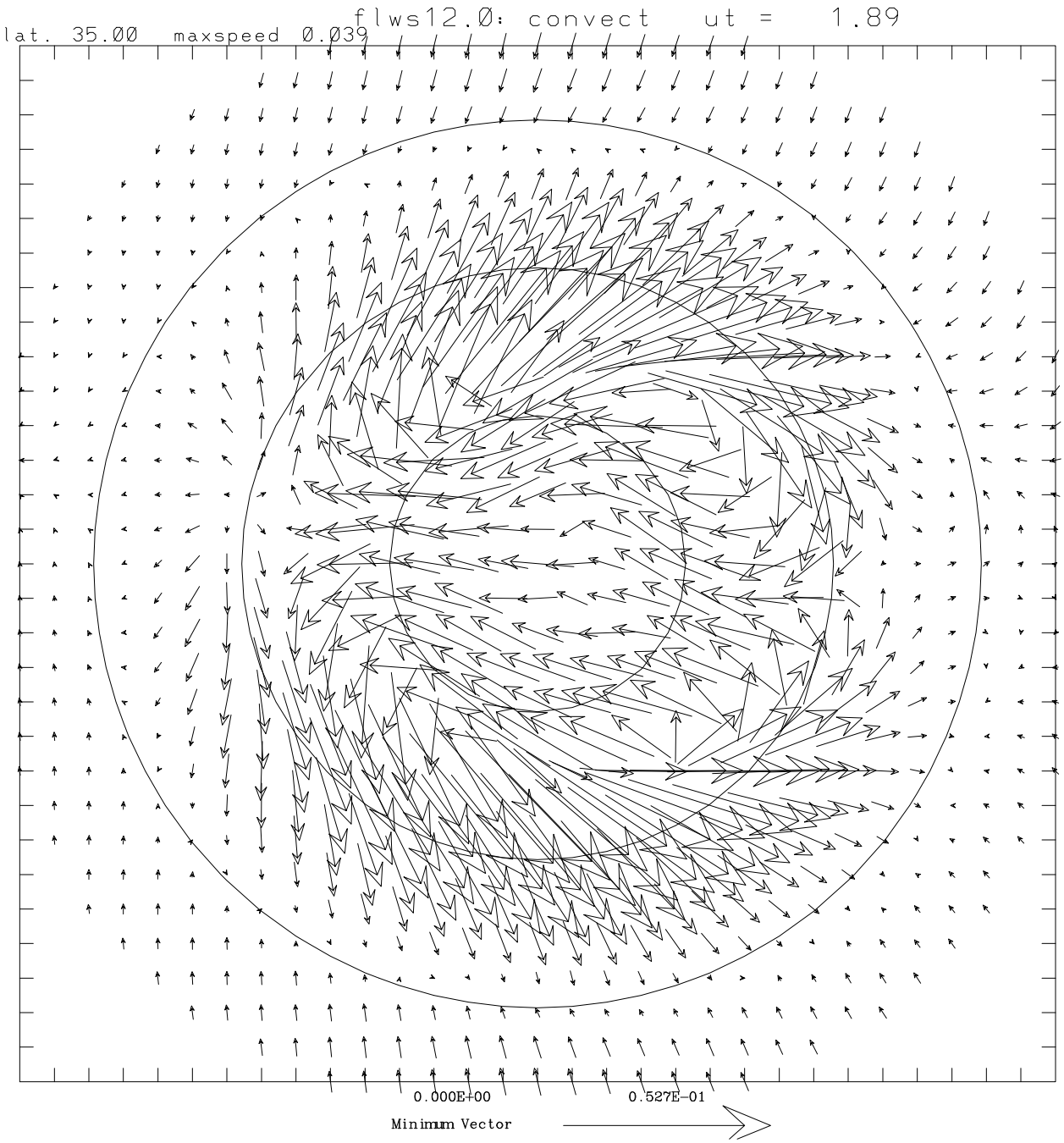
Minimum Vector


flws12.0: convect ut = 1.89
lat. 35.00 maxspeed 0.039
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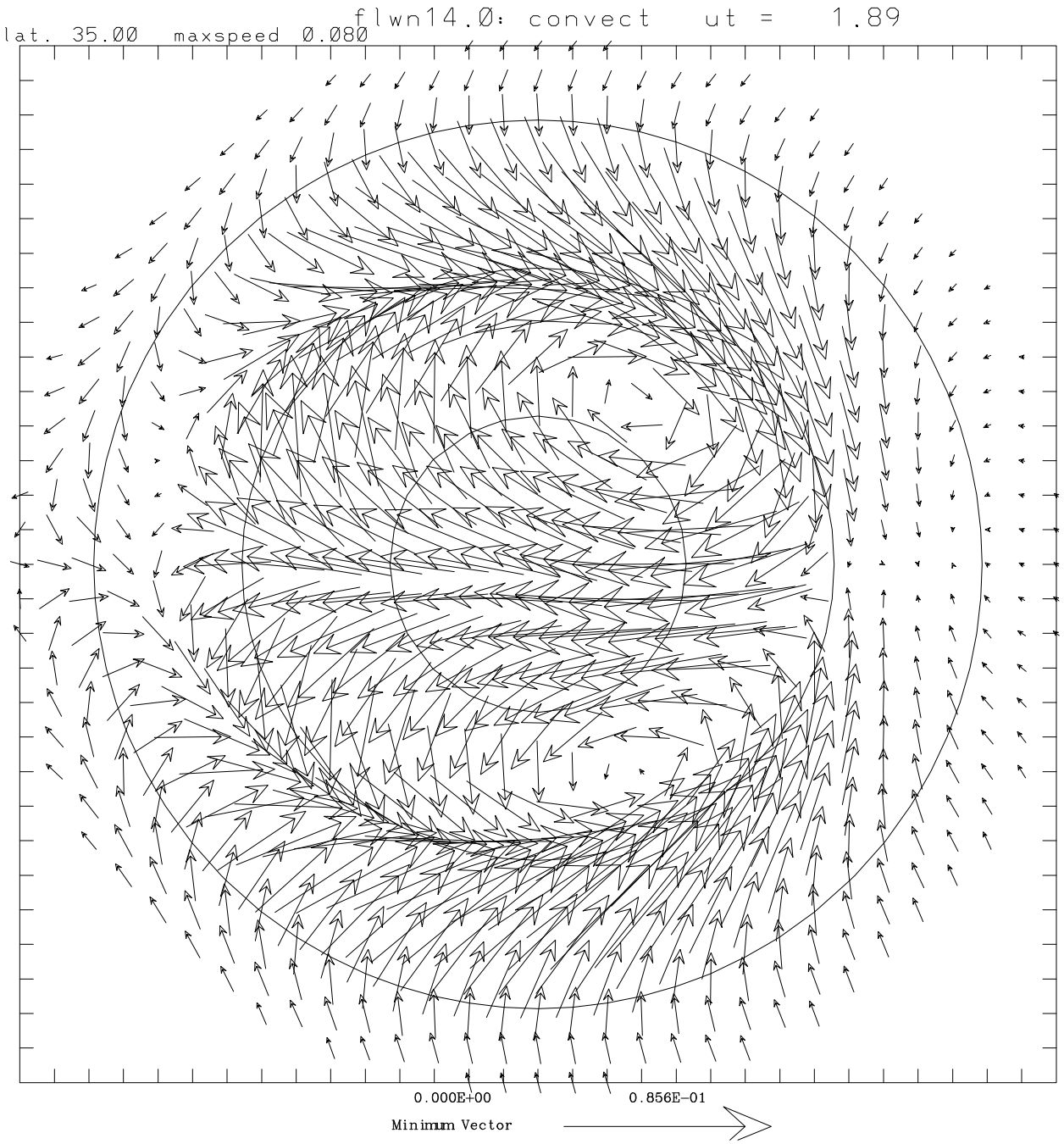
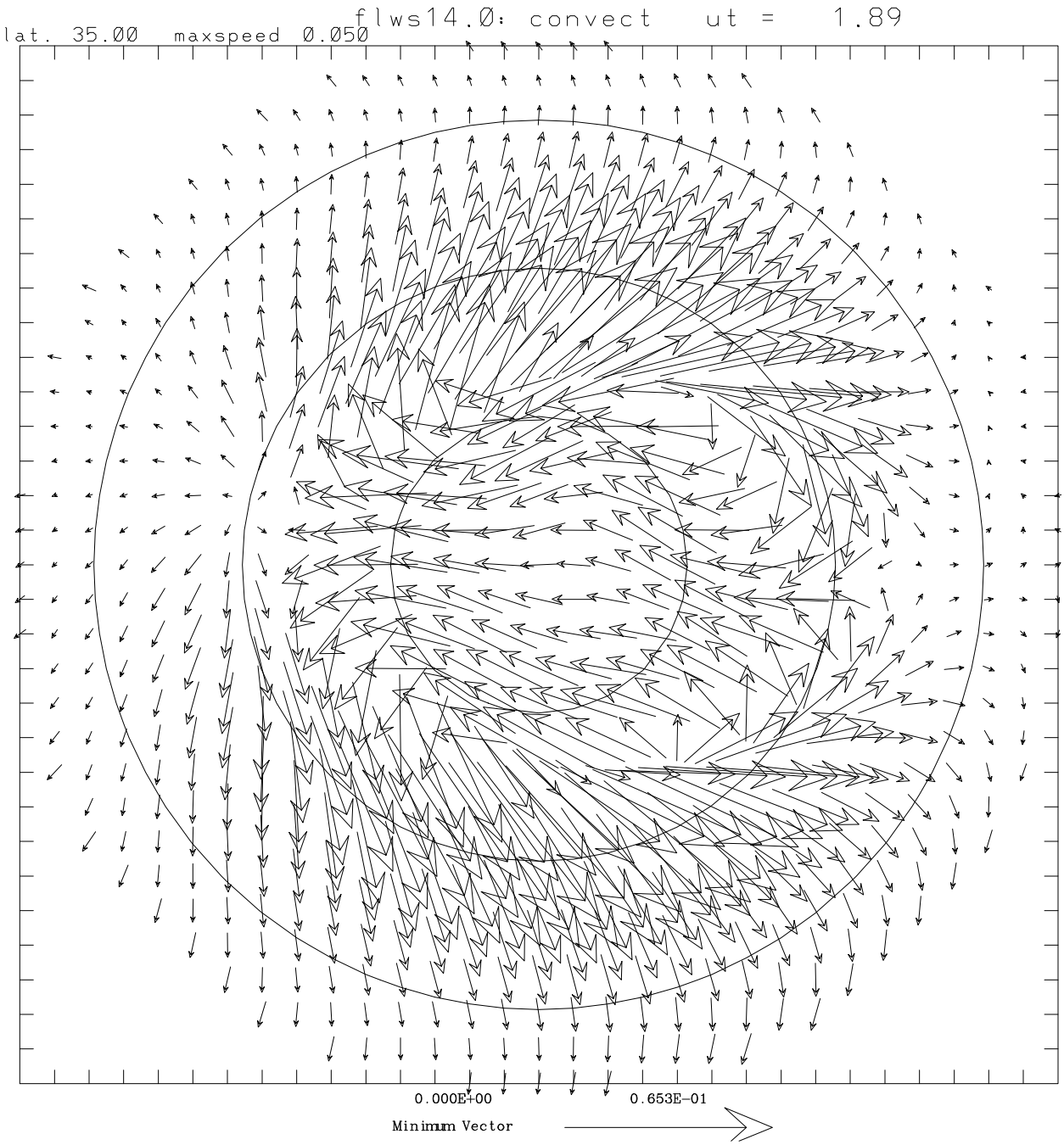
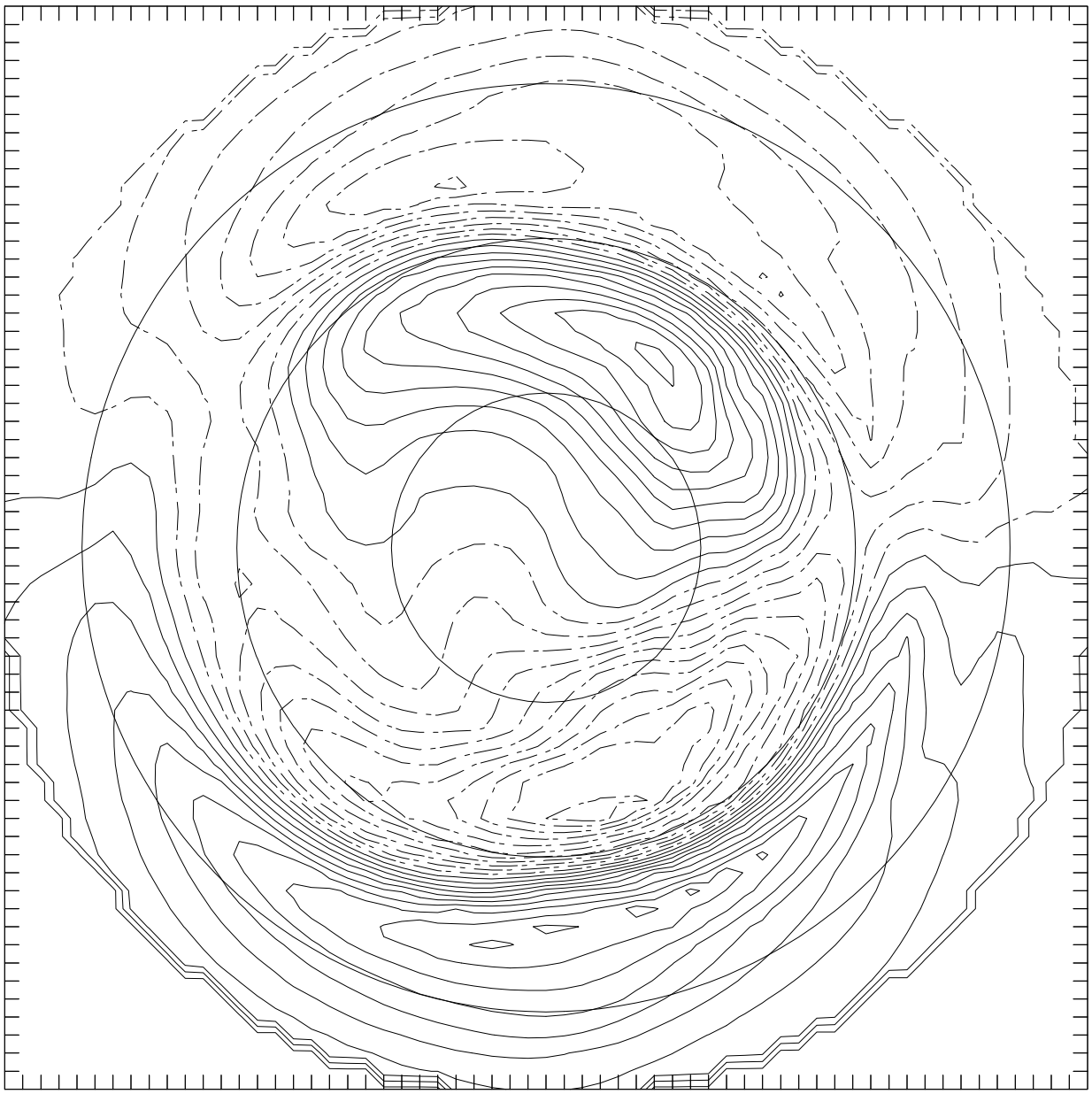
0.527E-01
Minimum Vector

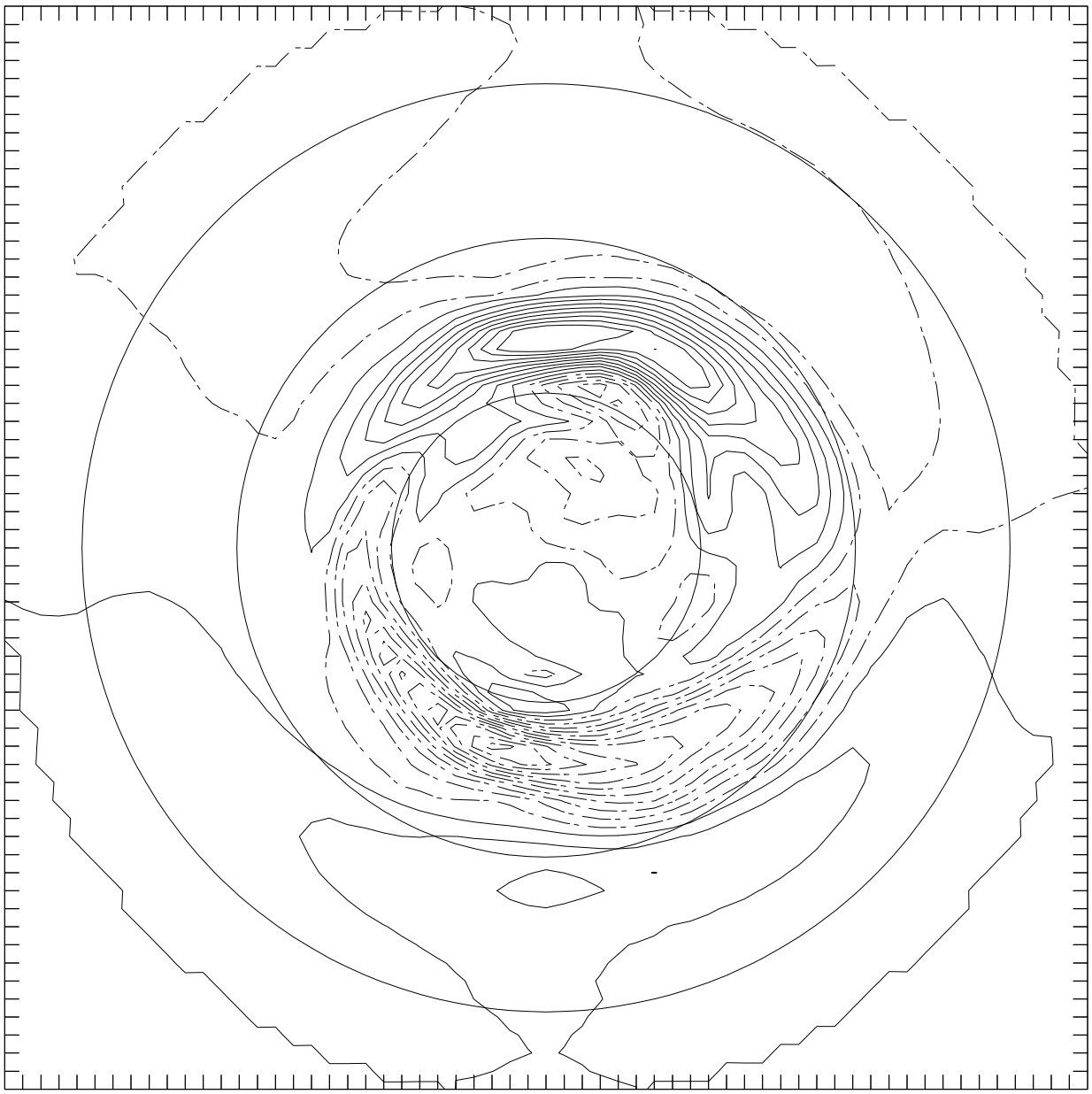

flwn14.0: convect ut = 1.89
lat. 35.00 maxspeed 0.080
0.000E+00
0.856E-01
Minimum Vector


flws14.0: convect ut = 1.89
lat. 35.00 maxspeed 0.050
0.000E+00
0.653E-01
Minimum Vector

min -0.06 fmax 0.05 nth cap pot ut = 1.89

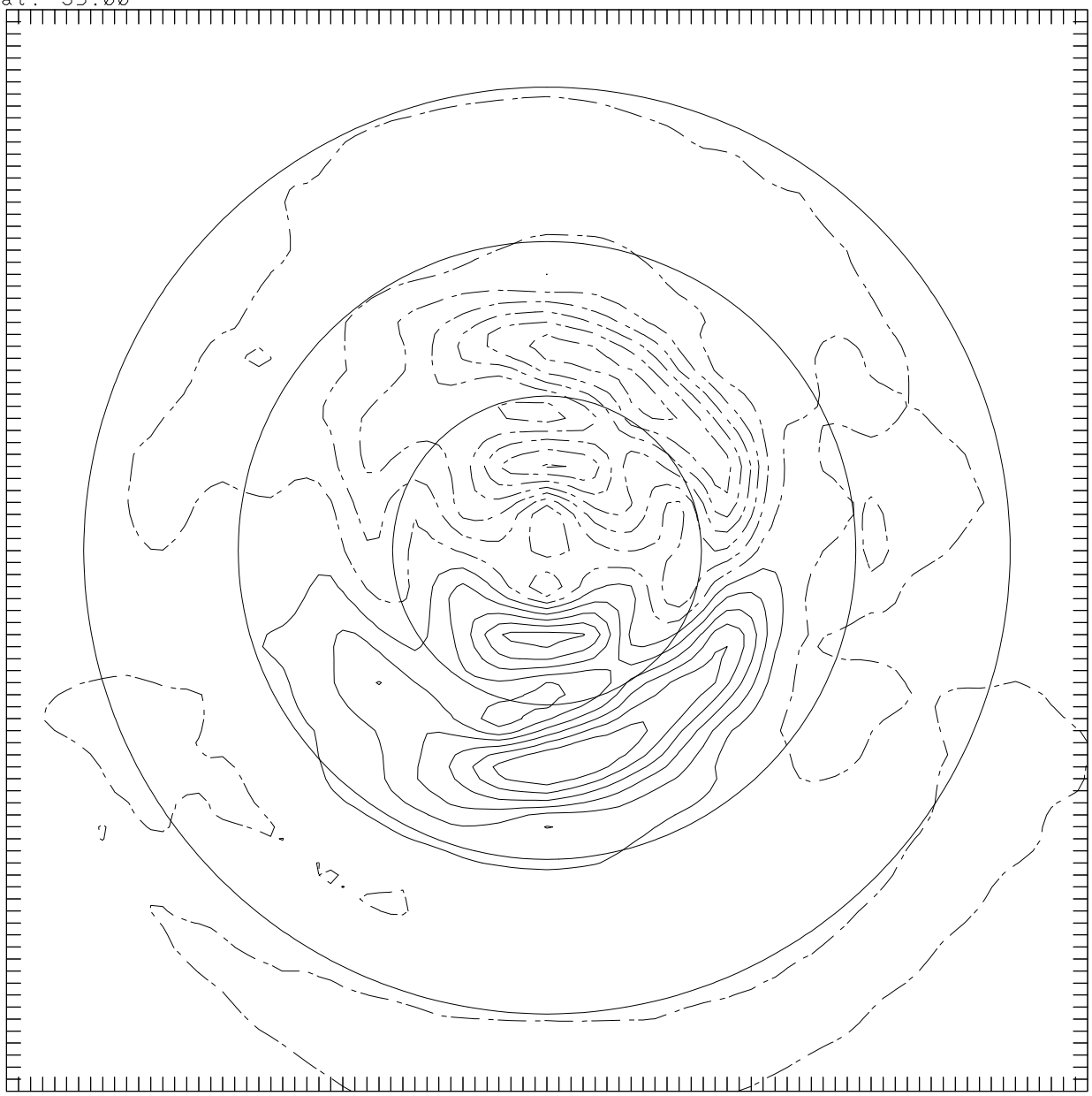


min -0.10 fmax 0.09 sth cap pot ut = 1.89



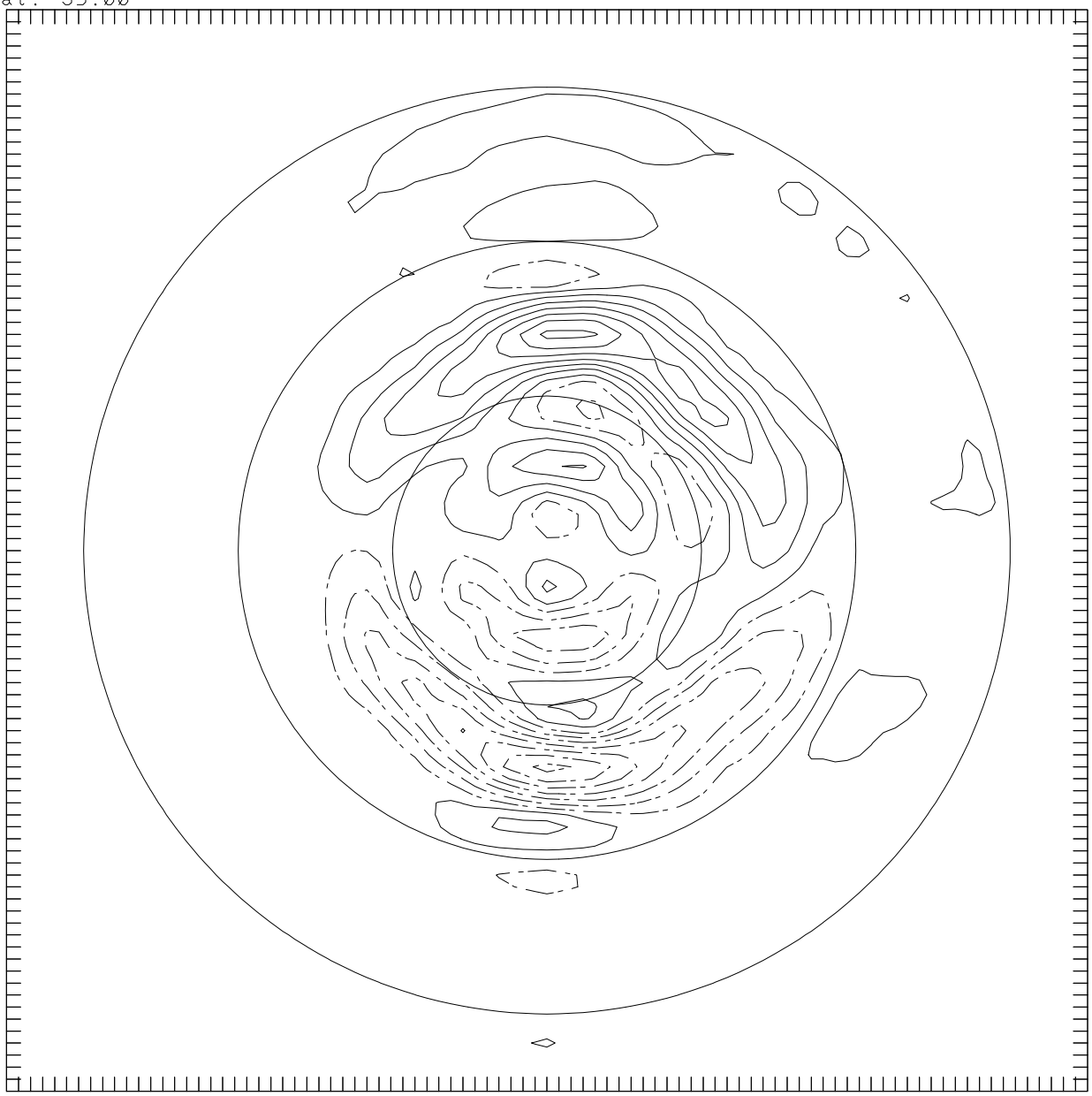
min-0.1685 fmax 0.1927
lat. 35.00

cur4 nth: aurora ut = 1.89



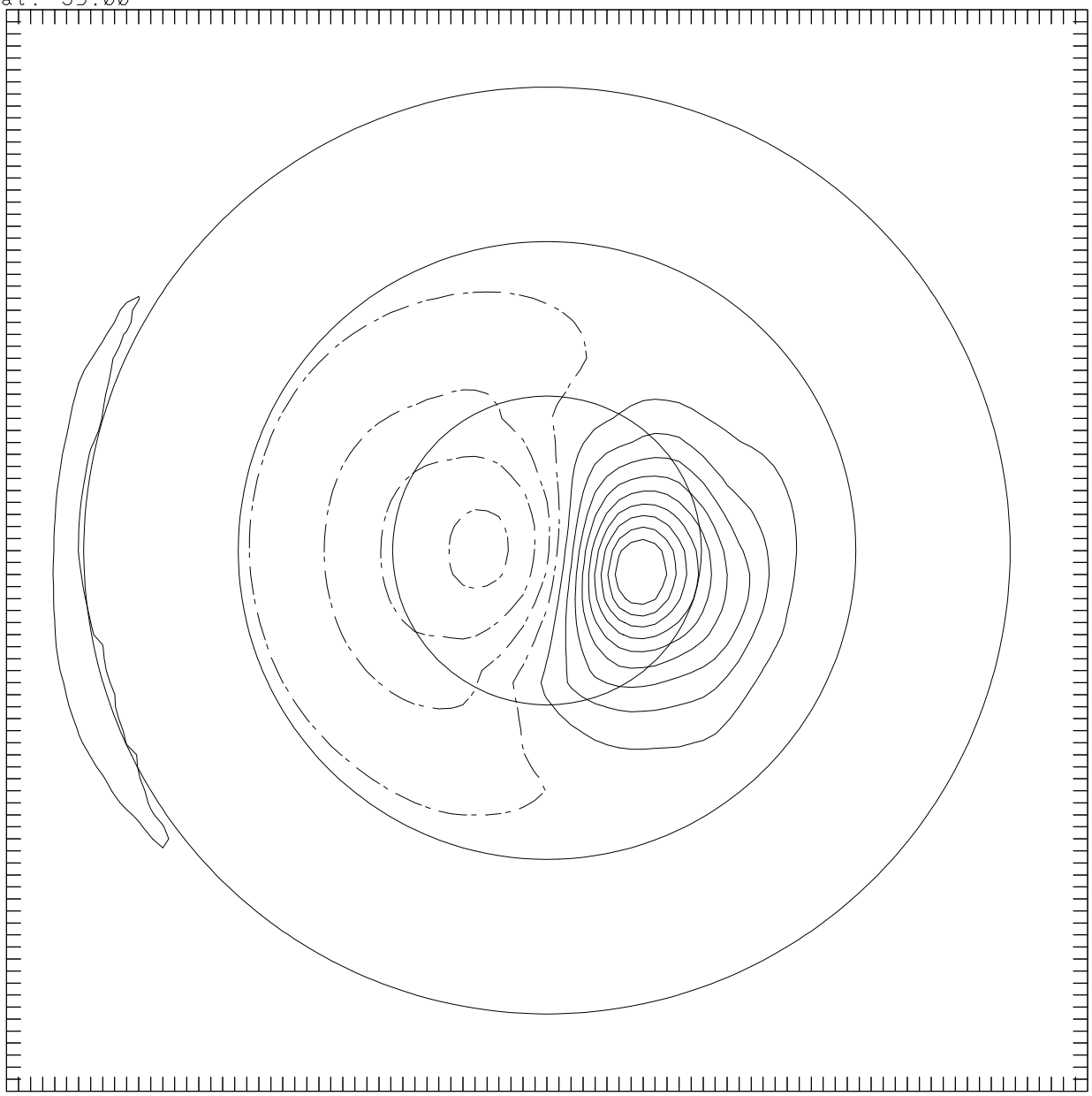
min-0.2630 fmax 0.2412
lat. 35.00

cur4 sth: aurora ut = 1.89



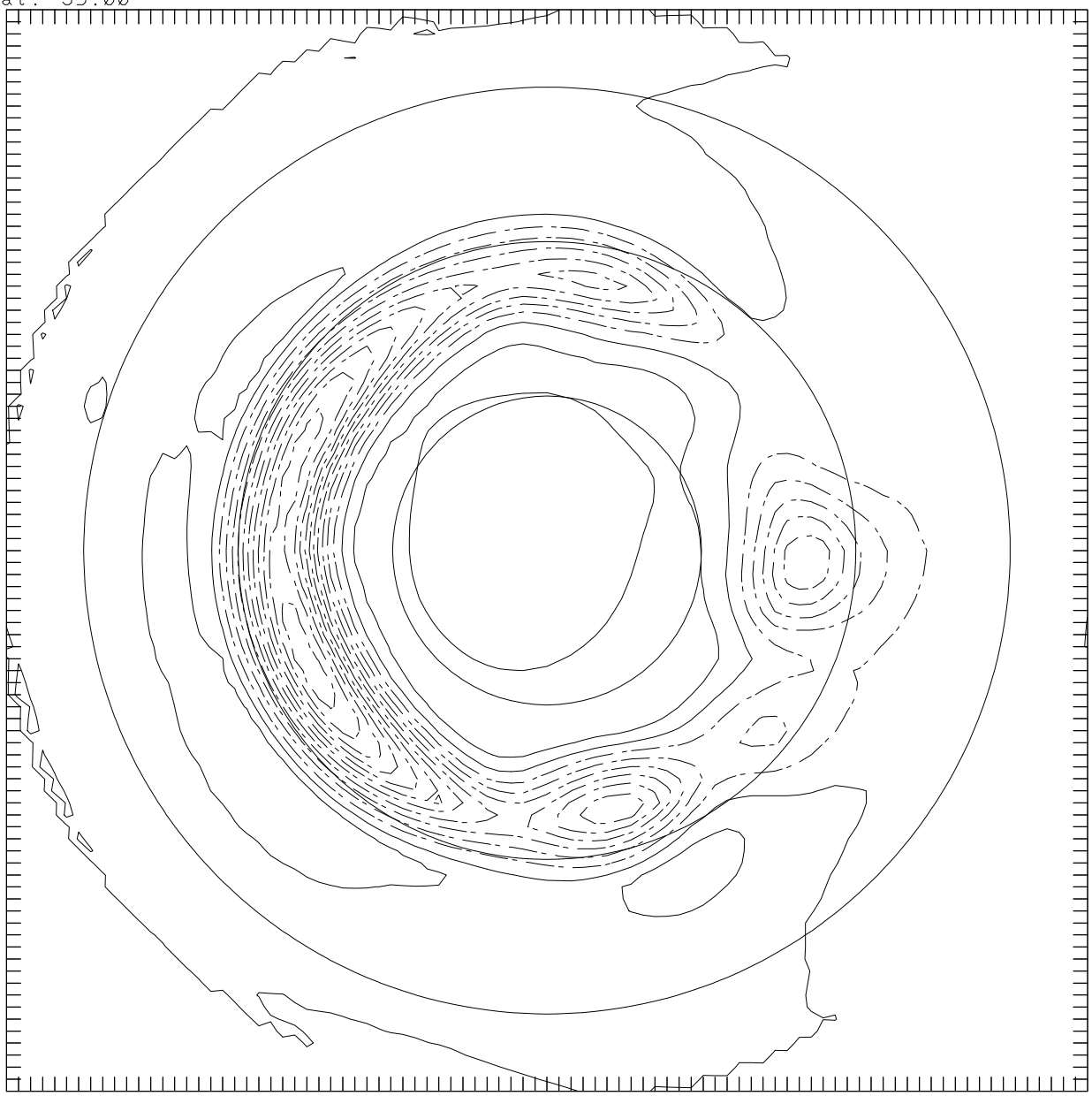
min-0.3840 fmax 0.9610
lat. 35.00

qfluxnth: aurora ut = 1.89



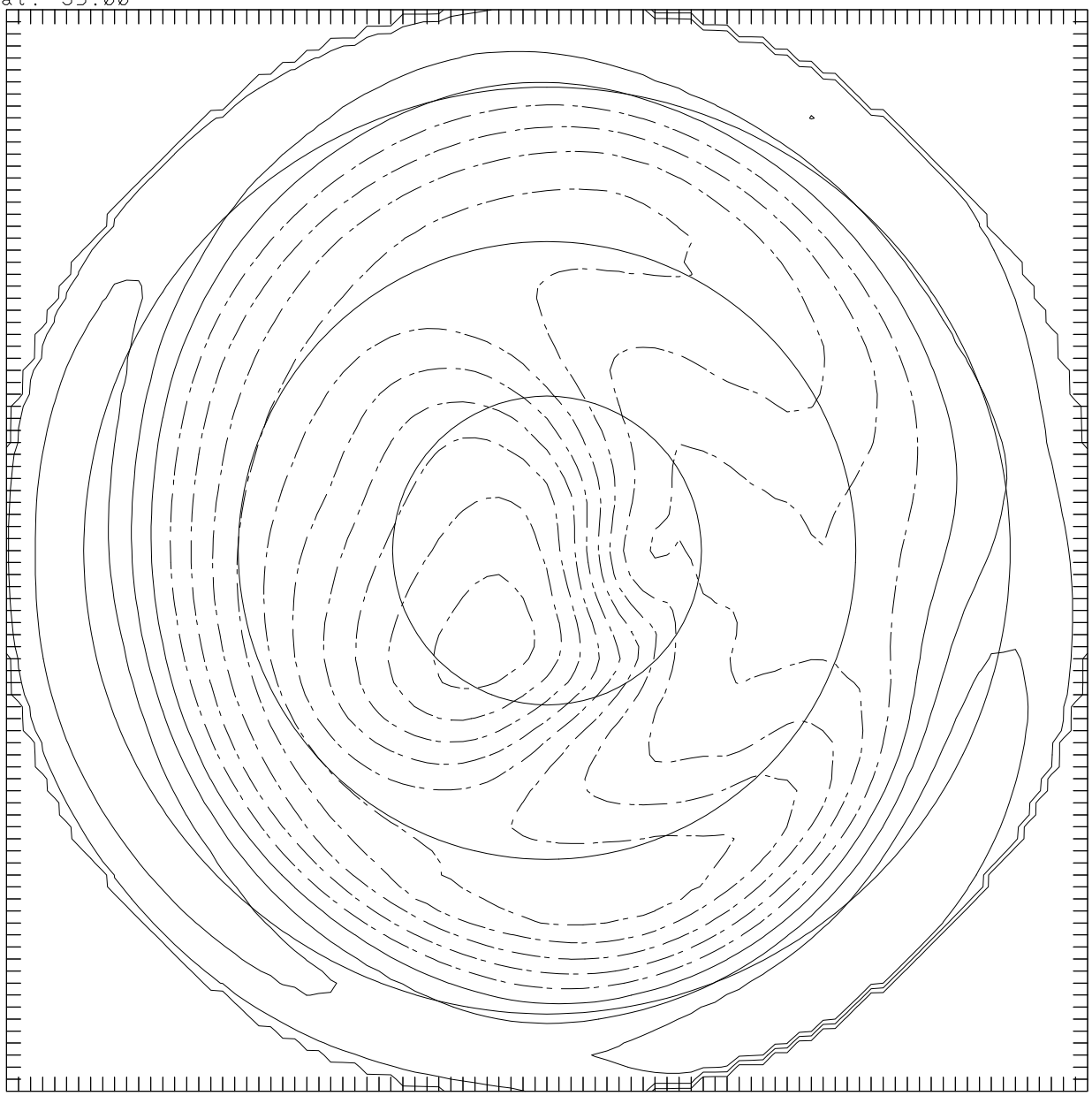
min-0.0408 fmax 0.0084
lat. 35.00

qfluxsth: aurora ut = 1.89



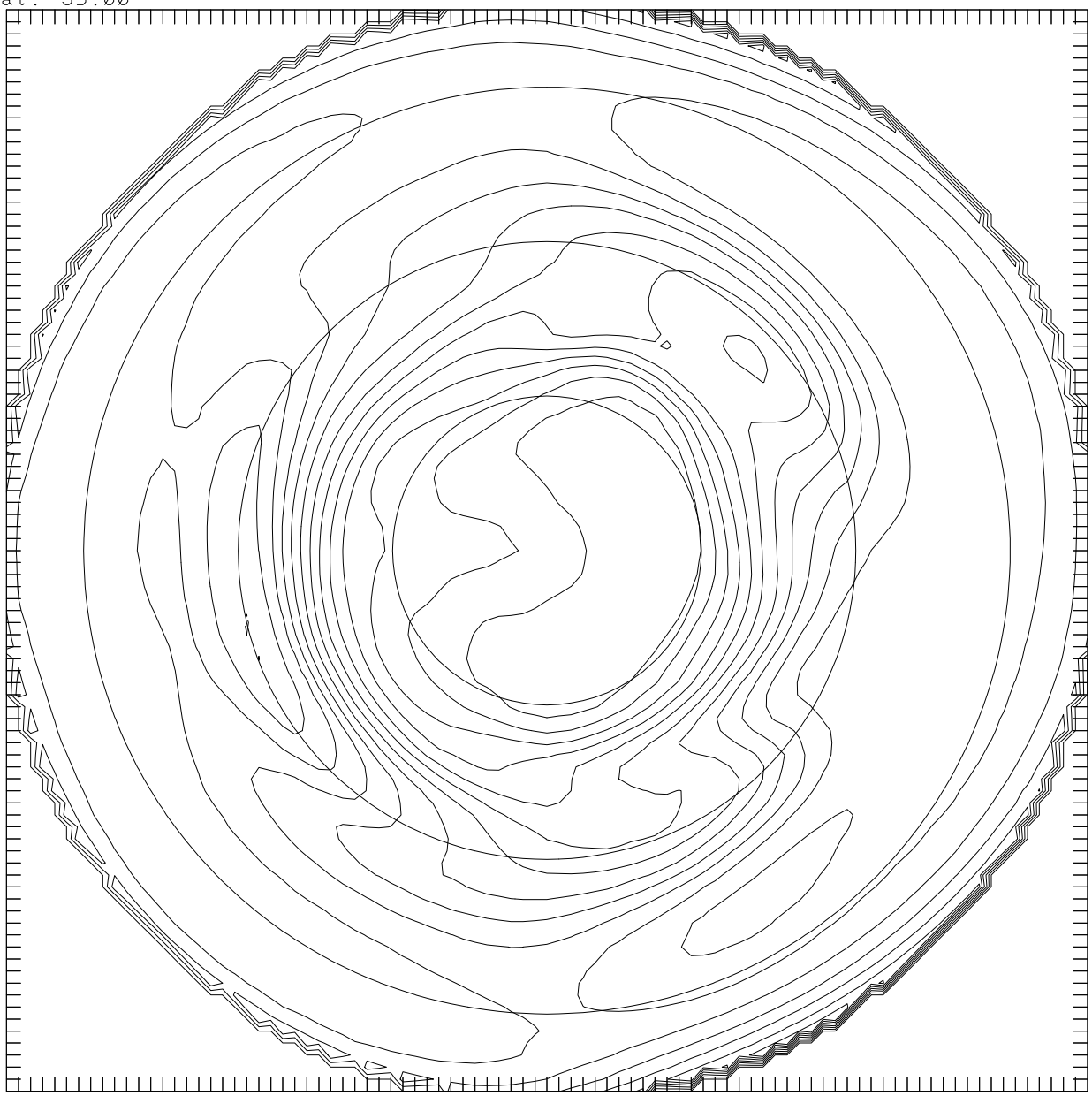
min-0.1070 fmax 0.0400
lat. 35.00

hfluxnth: aurora ut = 1.89



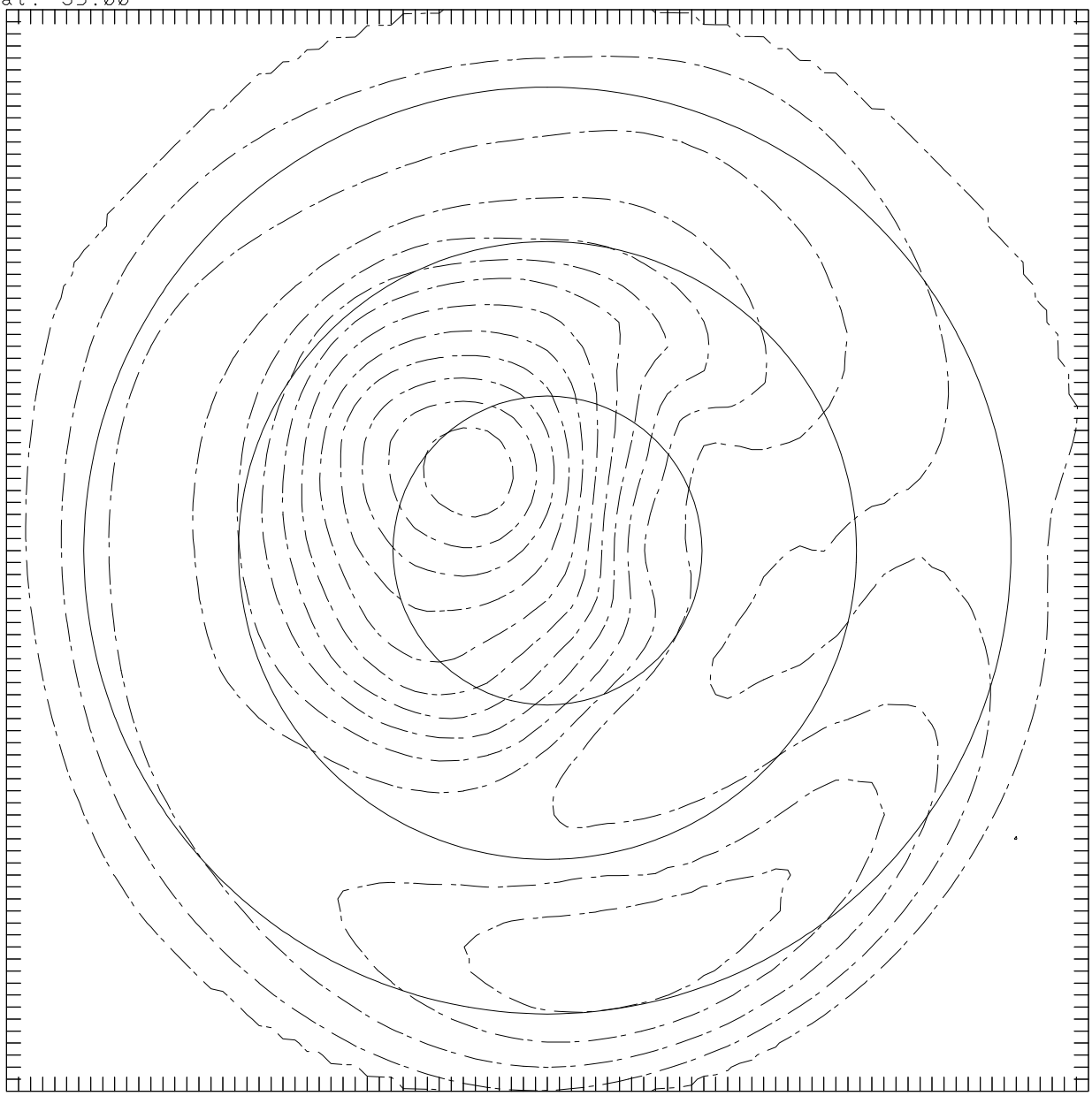
min-0.0033 fmax 0.0394
lat. 35.00

hfluxsth: aurora ut = 1.89



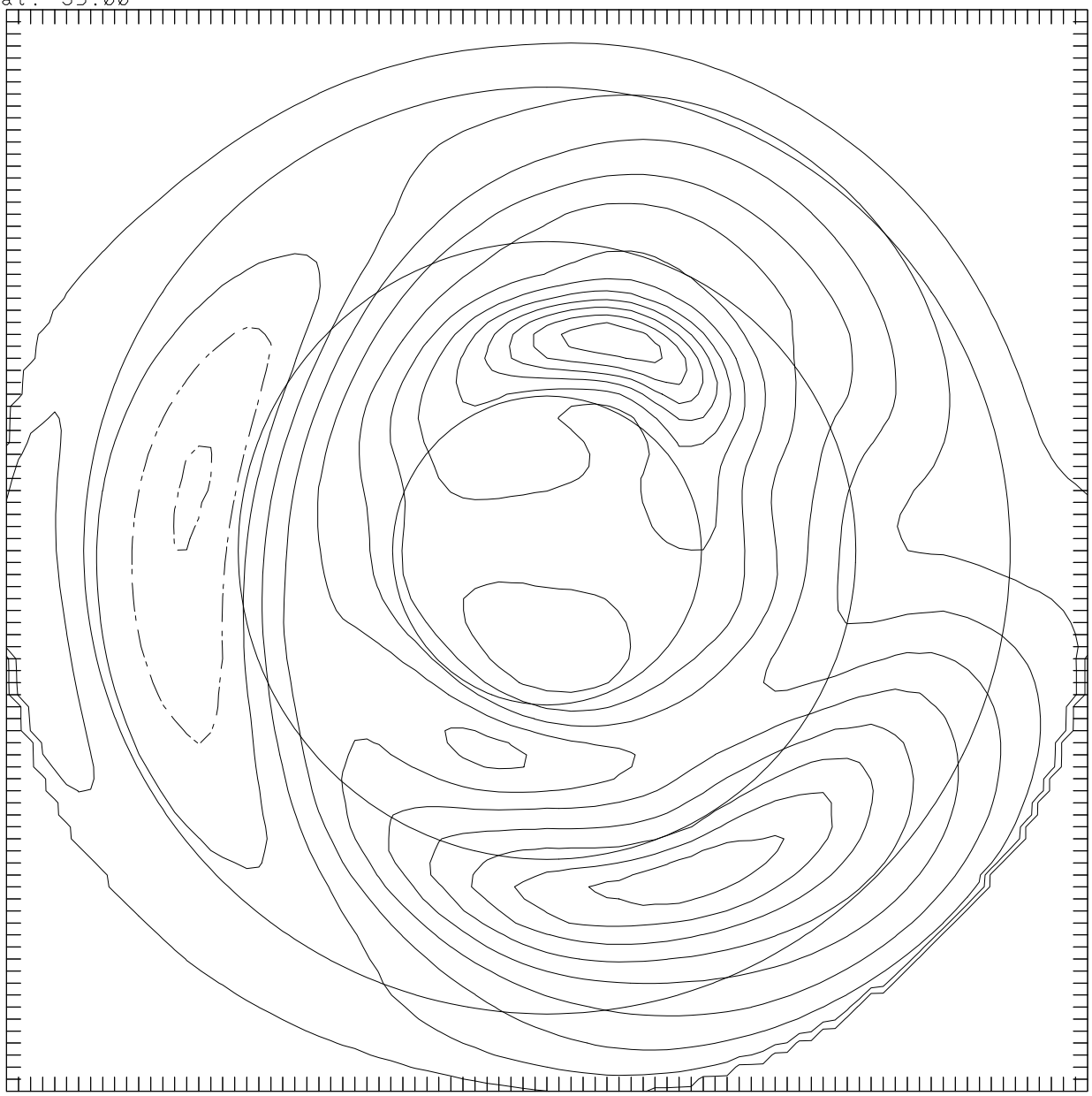
min-0.0687 fmax 0.0047
lat. 35.00

ofluxnth: aurora ut = 1.89



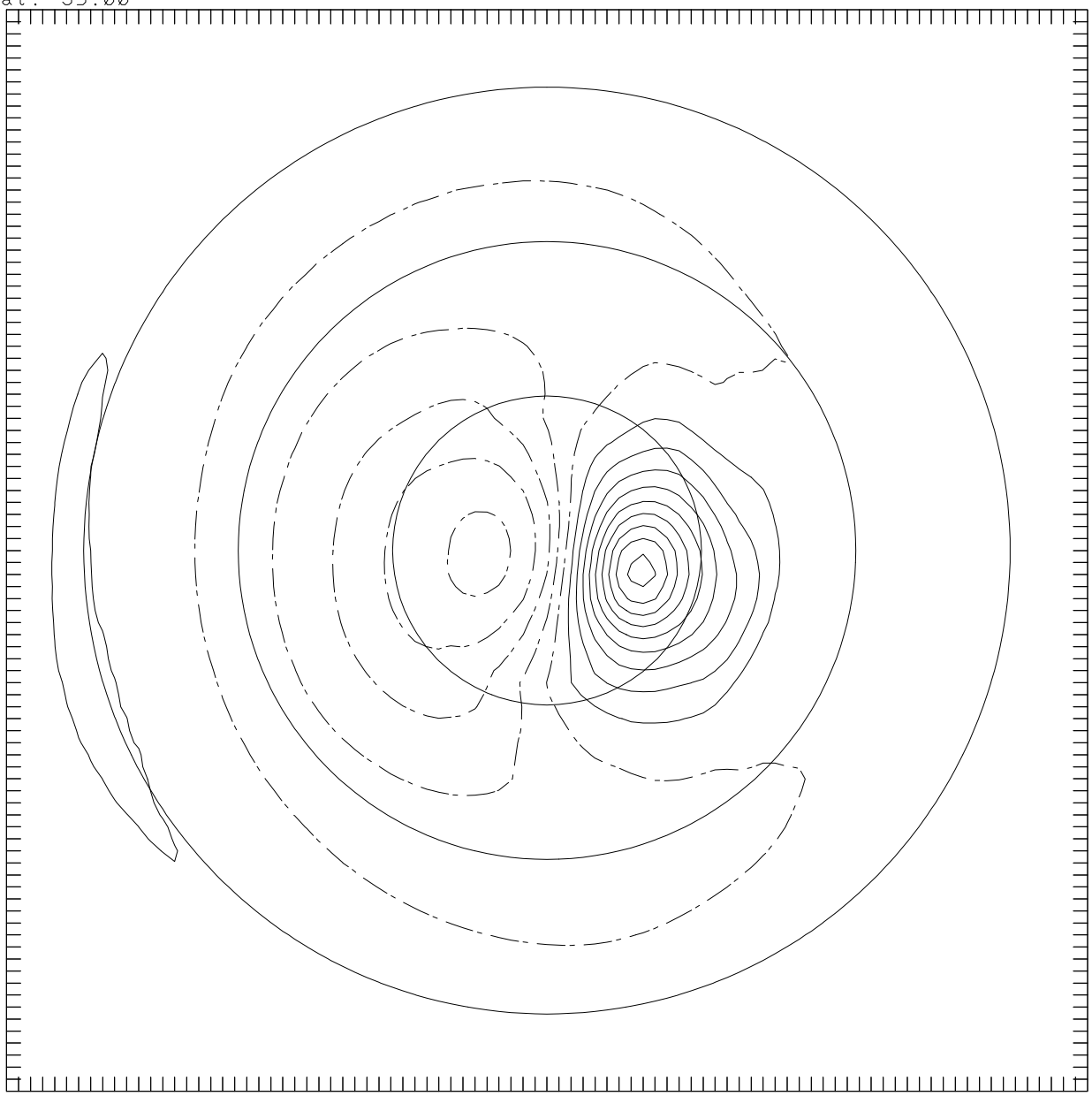
min-0.0065 fmax 0.0425
lat. 35.00

ofluxsth: aurora ut = 1.89



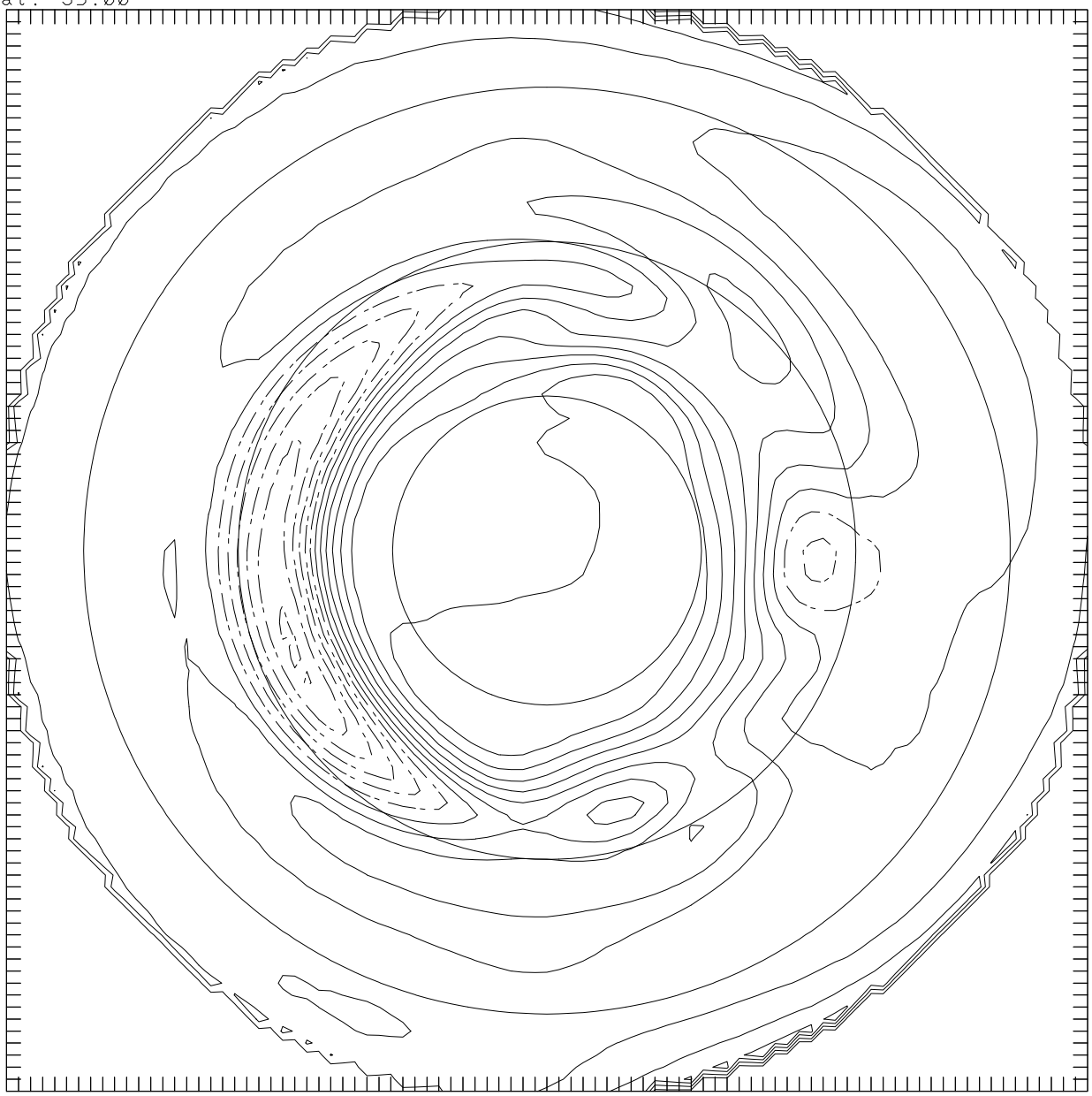
min-0.4848 fmax 0.9399
lat. 35.00

efluxnth: aurora ut = 1.89



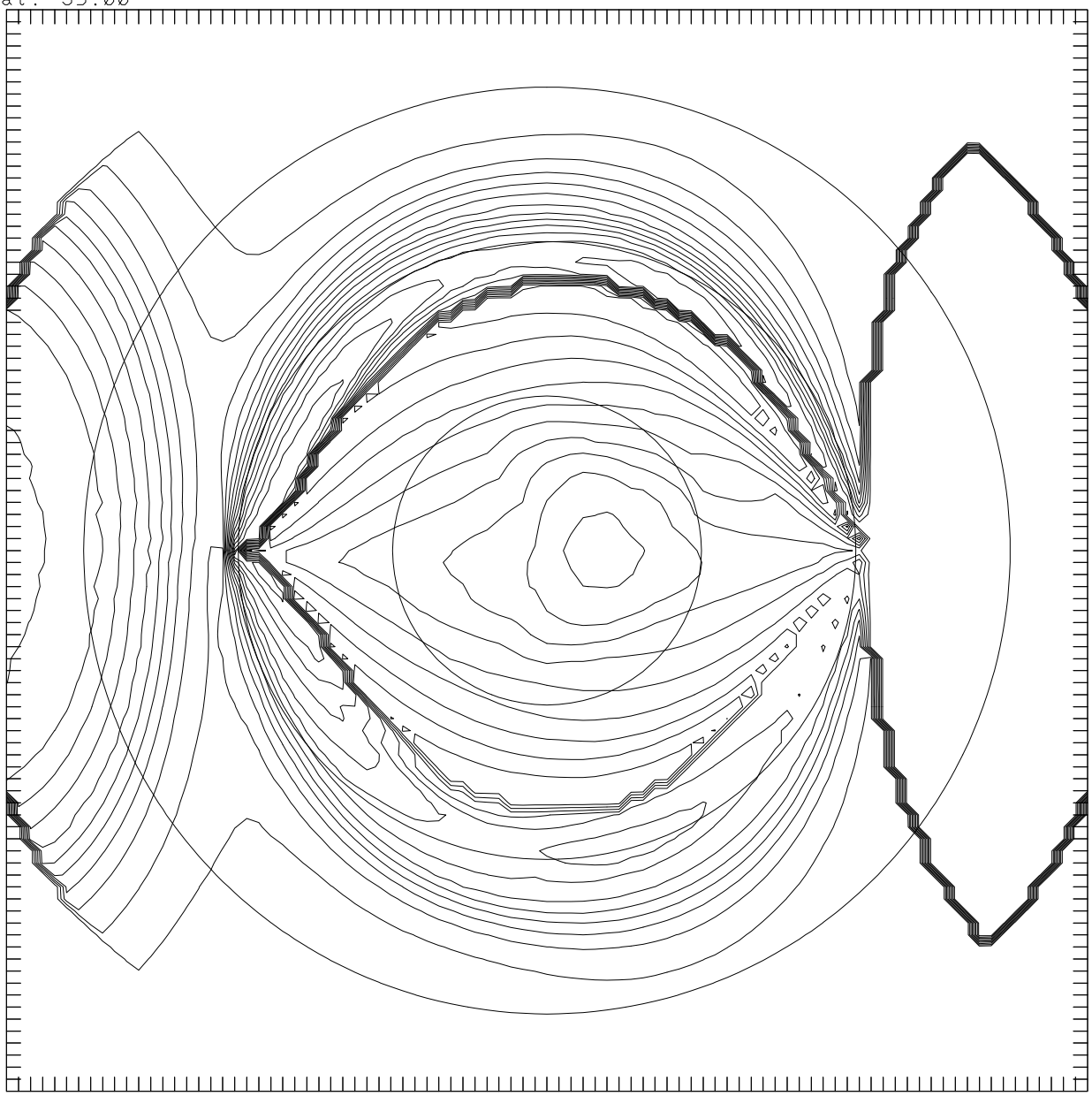
min-0.0355 fmax 0.0467
lat. 35.00

efluxsth: aurora ut = 1.89



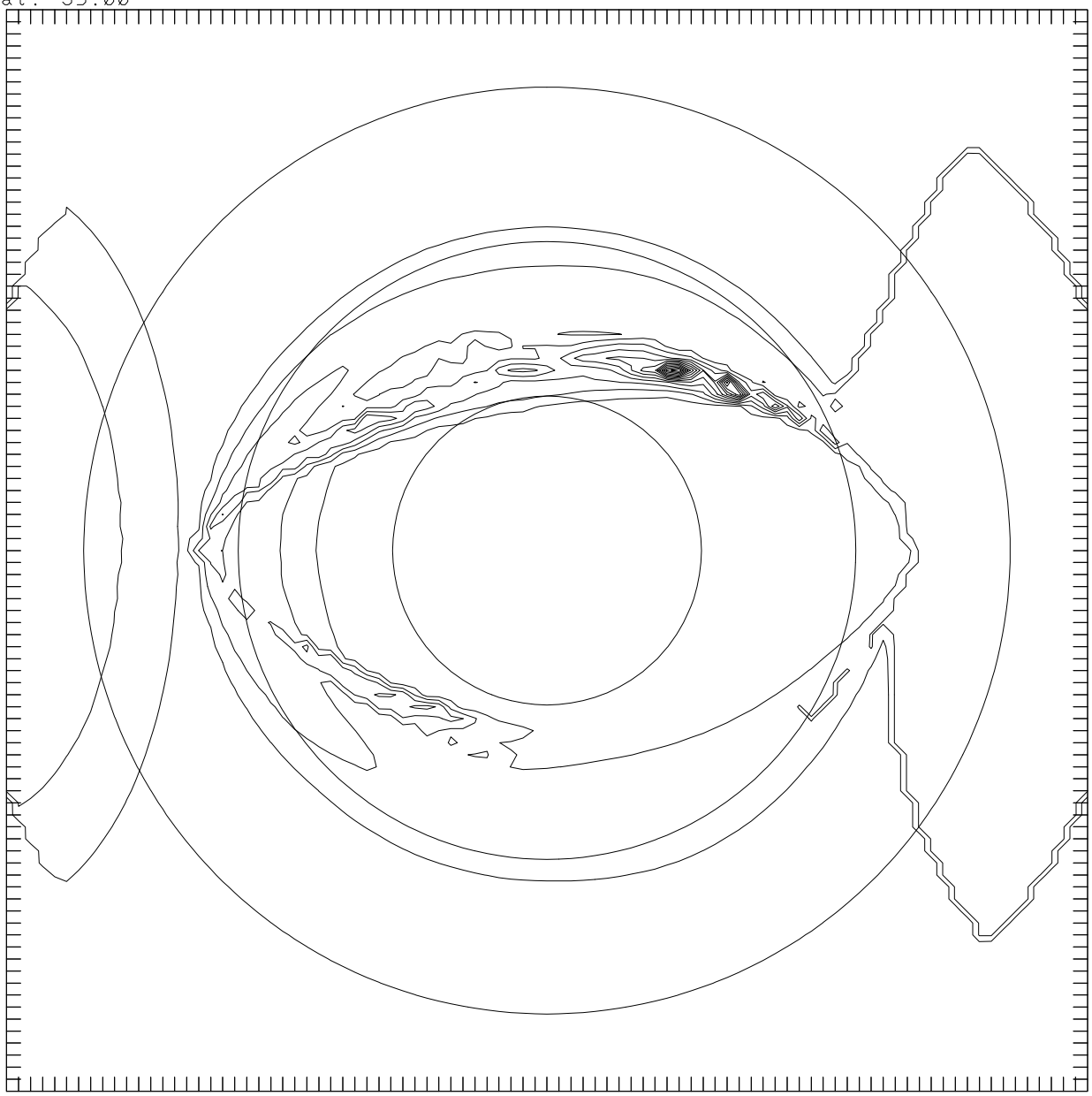
min 0.0000 0.0296
lat. 35.00

itempnth: intensity ut = 1.89



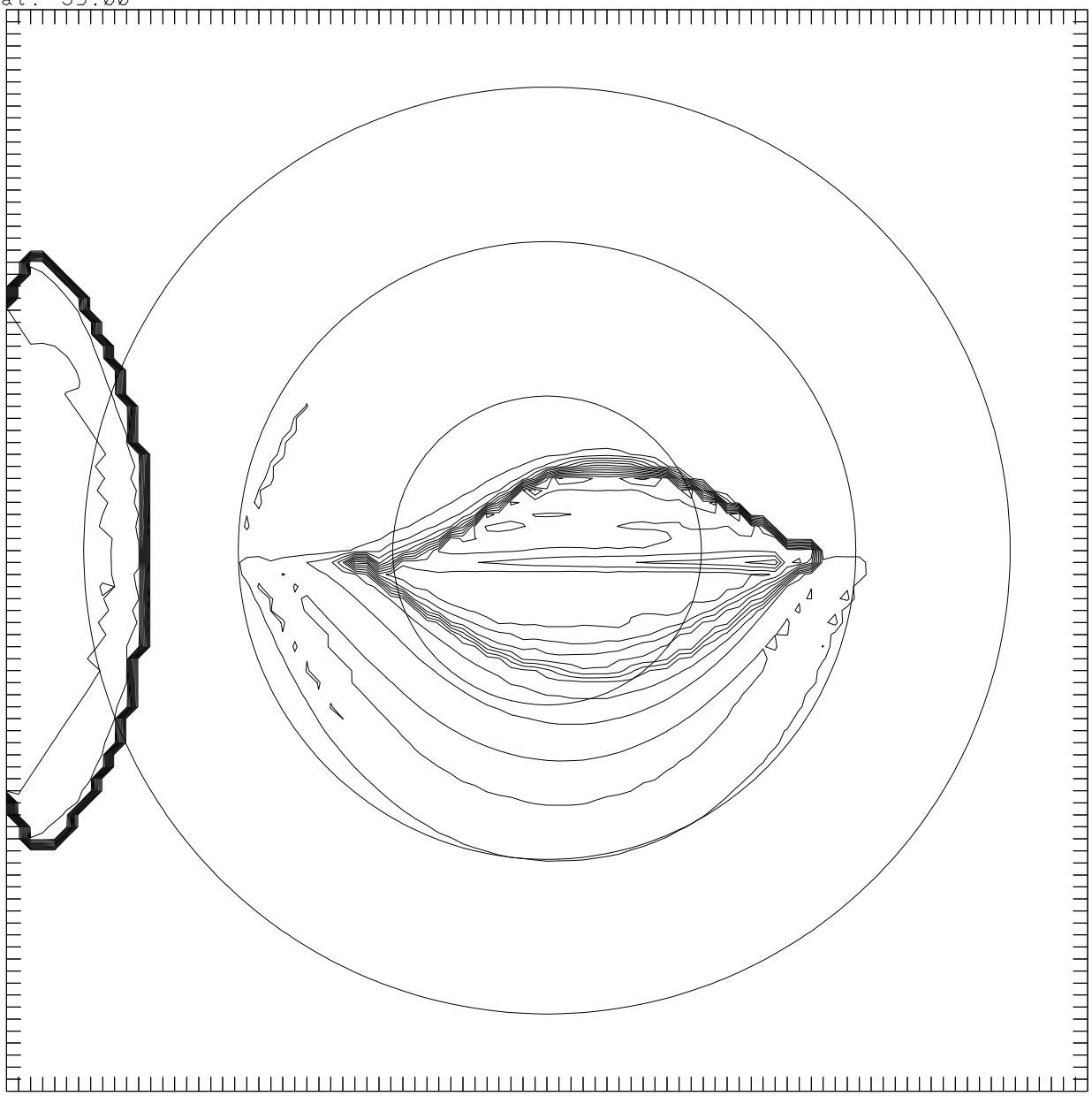
min 0.0000 0.1333
lat. 35.00

itempsth: intensity ut = 1.89



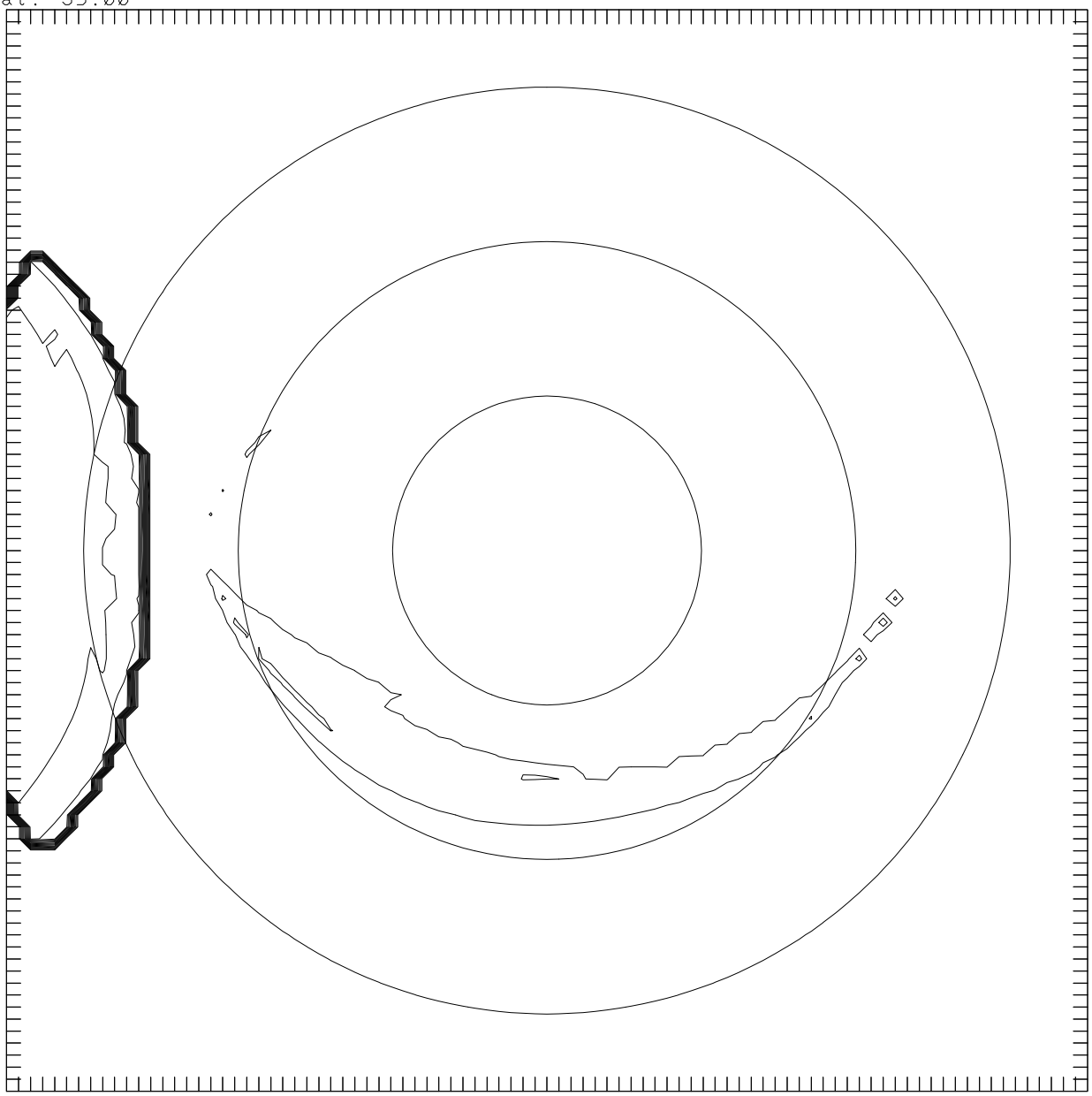
min 0.0000 0.4804
lat. 35.00

otempnth: intensity ut = 1.89



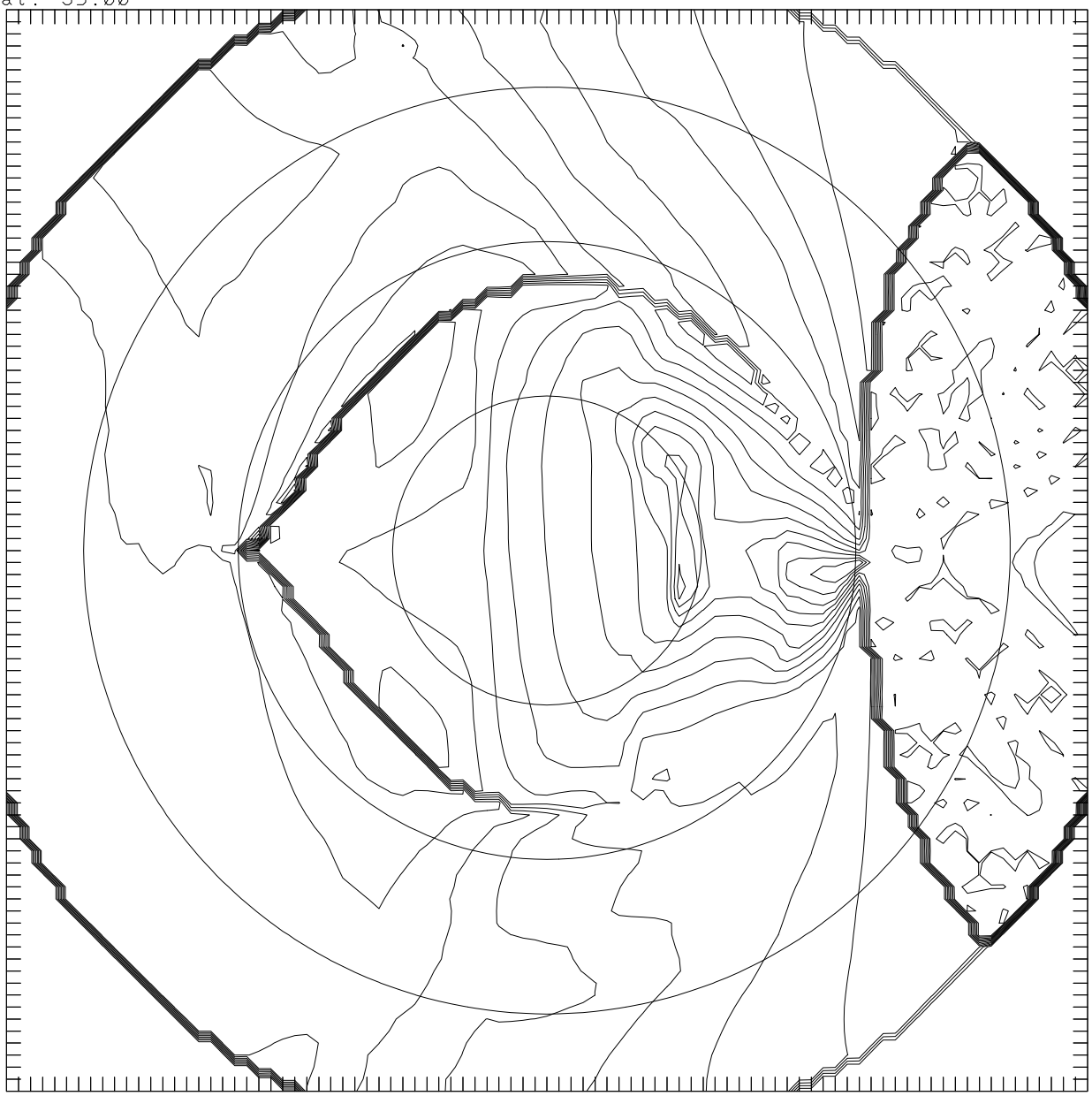
min 0.0000 0.4796
lat. 35.00

otempsth: intensity ut = 1.89



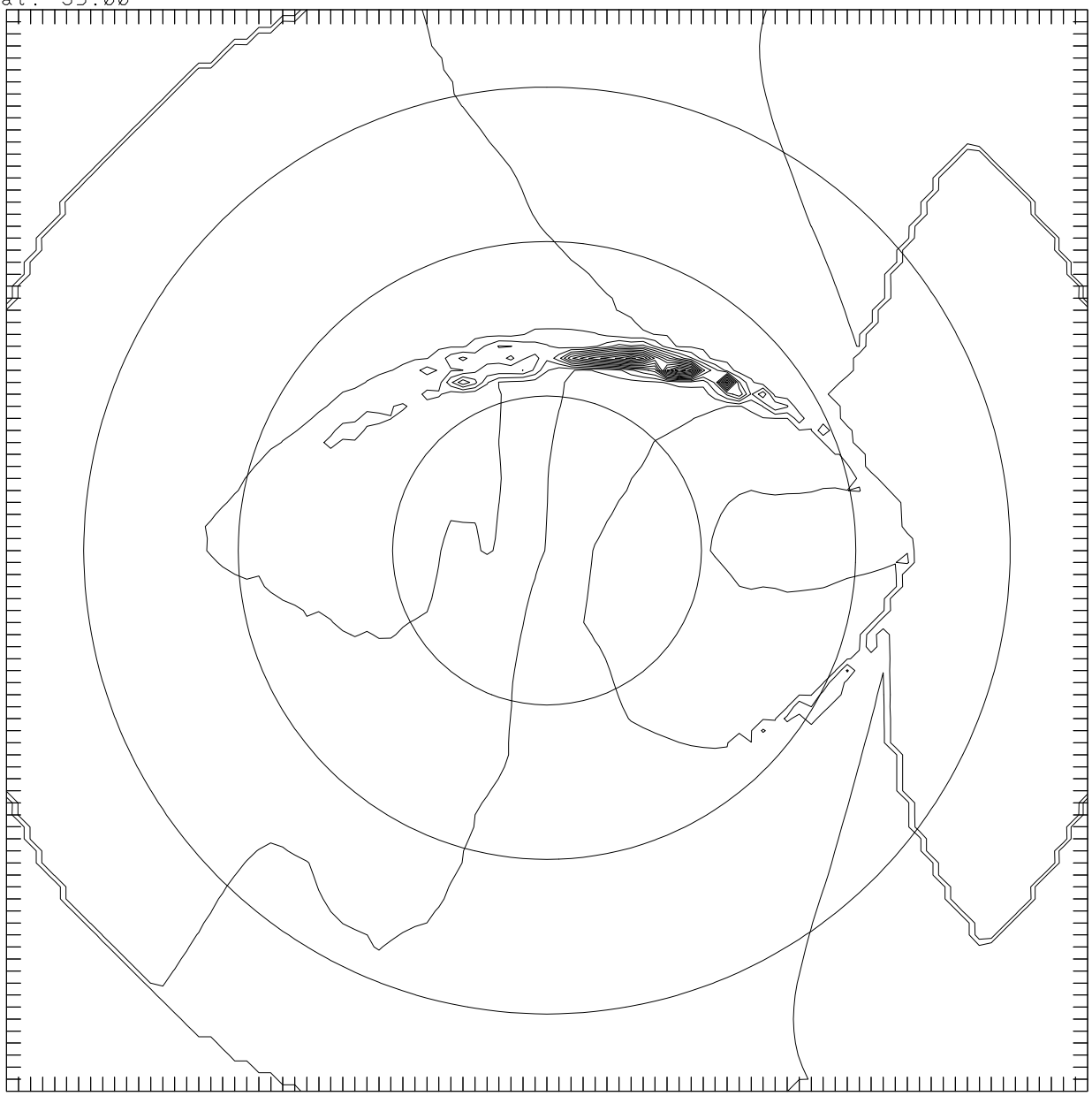
min 0.0000 0.0621
lat. 35.00

qtempnth: intensity ut = 1.89



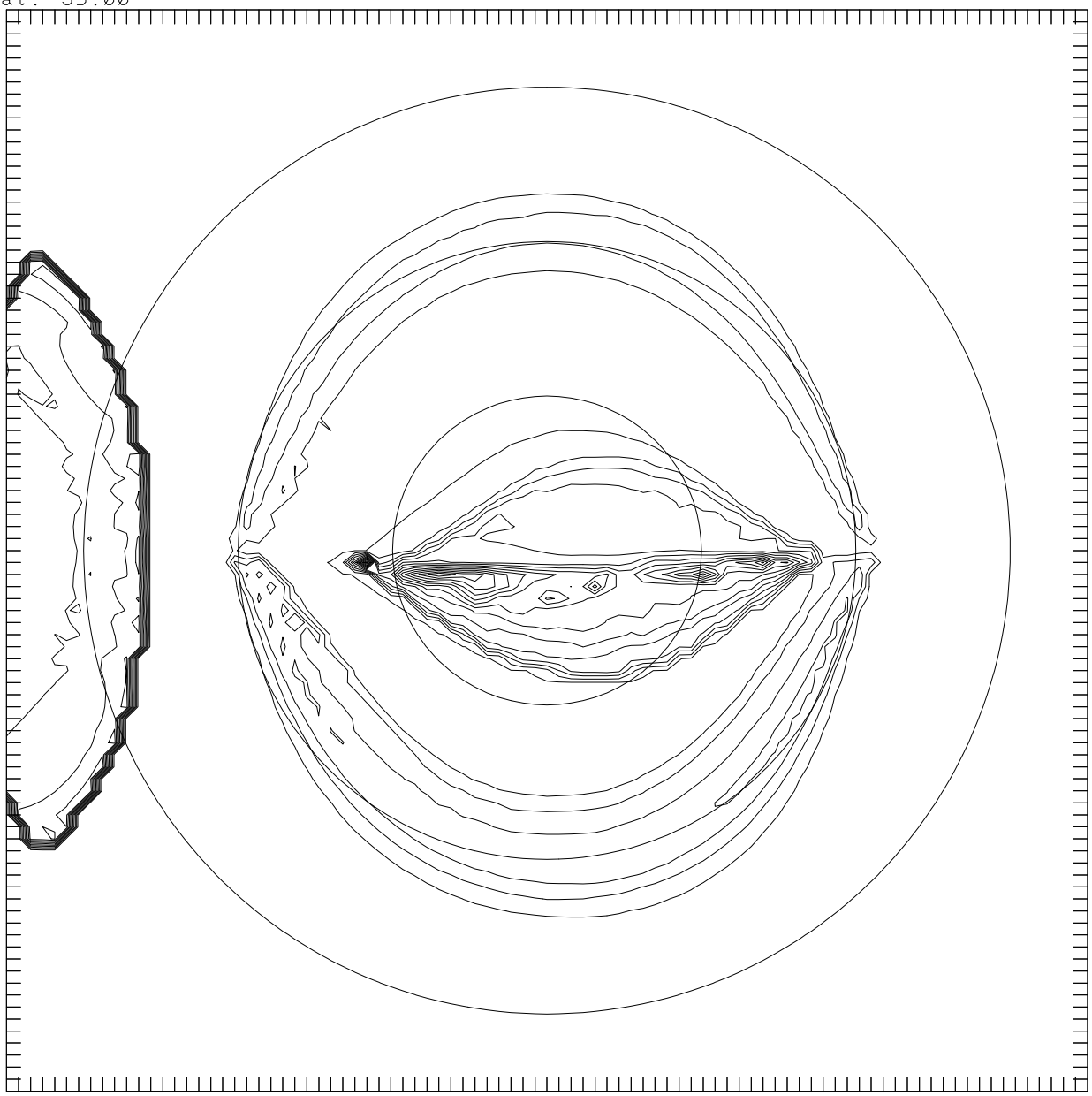
min 0.0000 0.2633
lat. 35.00

qtempsth: intensity ut = 1.89



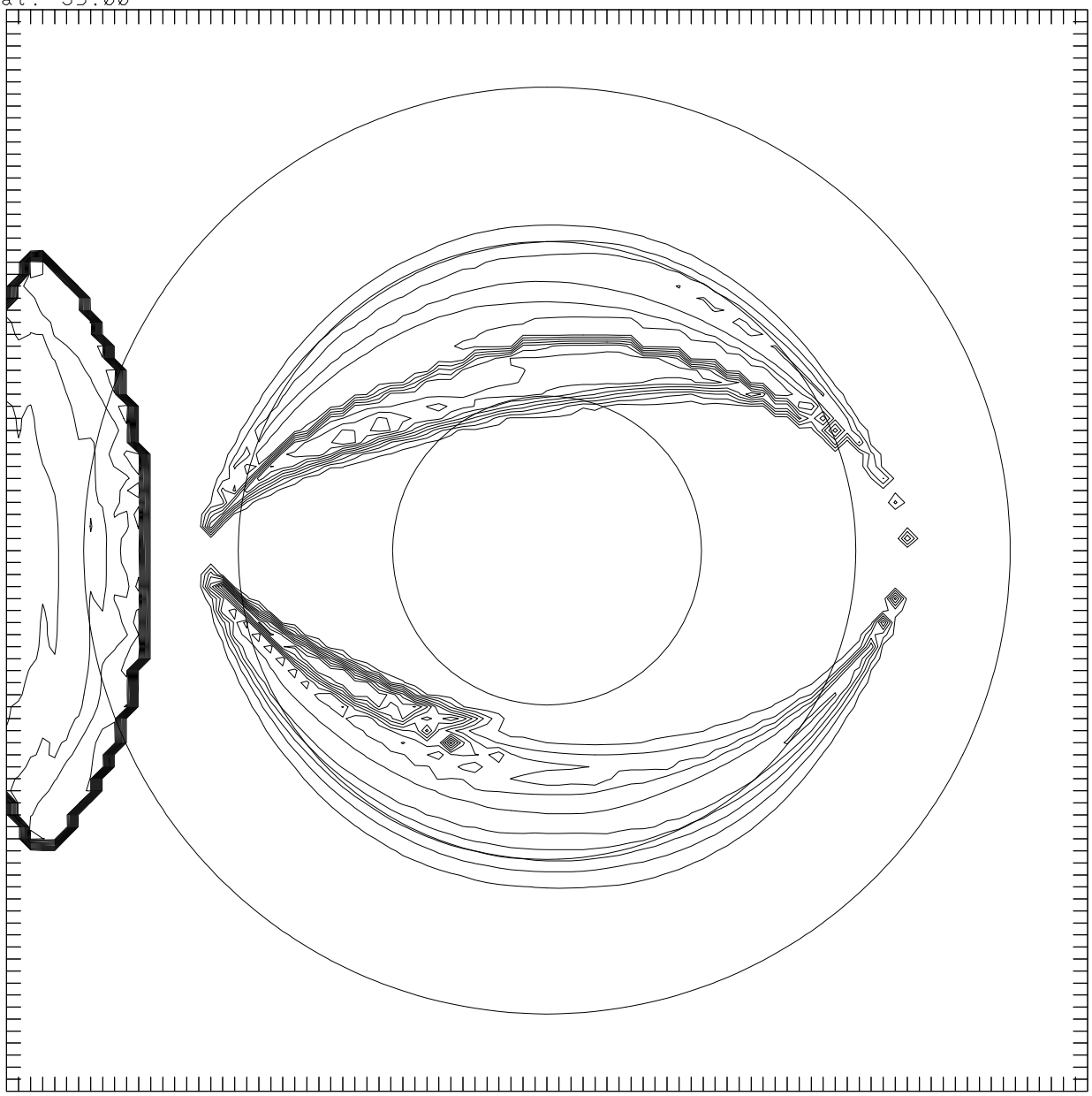
min 0.0000 0.0425
lat. 35.00

htempnth: intensity ut = 1.89



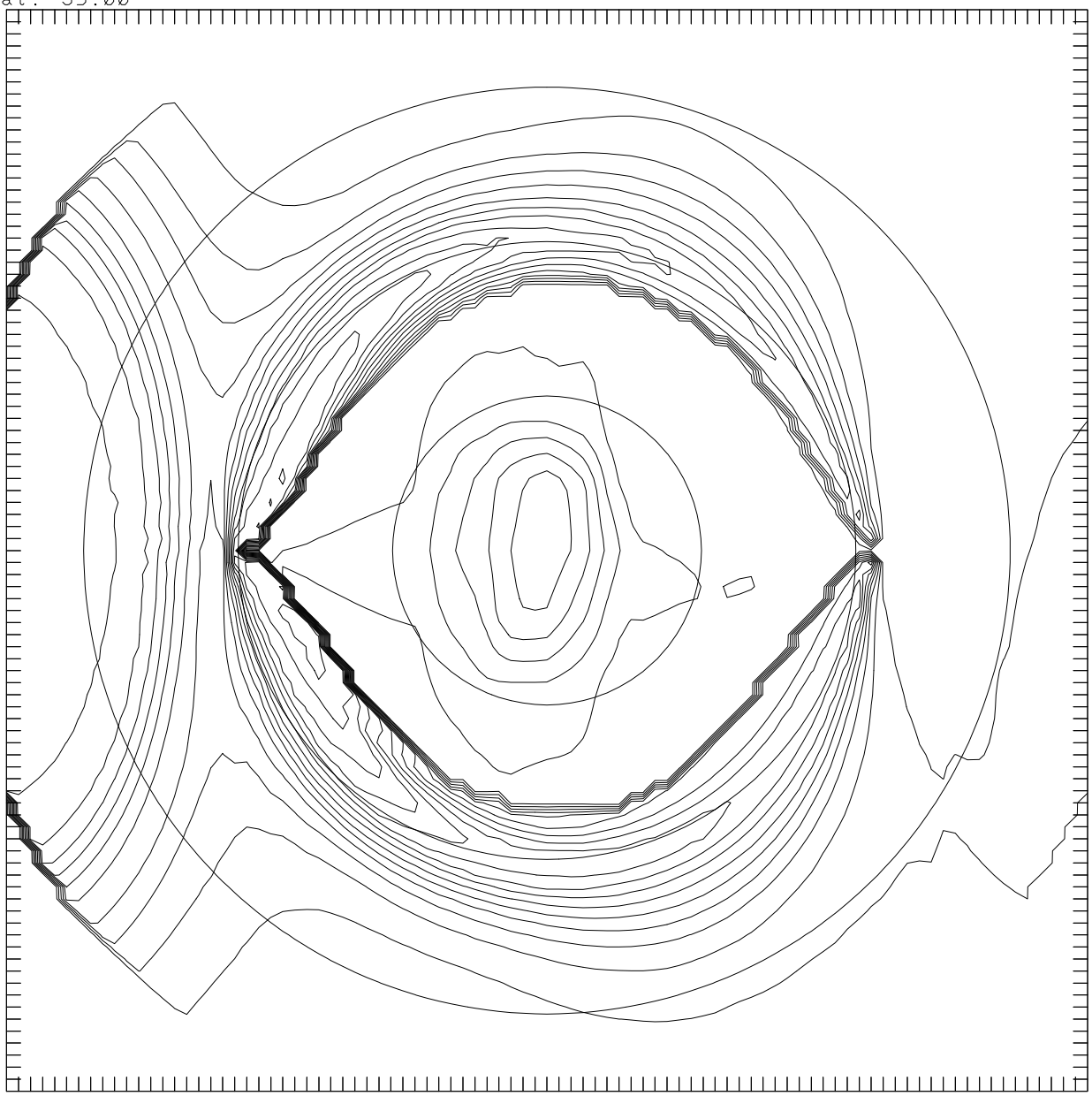
min 0.0000 0.0299
lat. 35.00

htempsth: intensity ut = 1.89



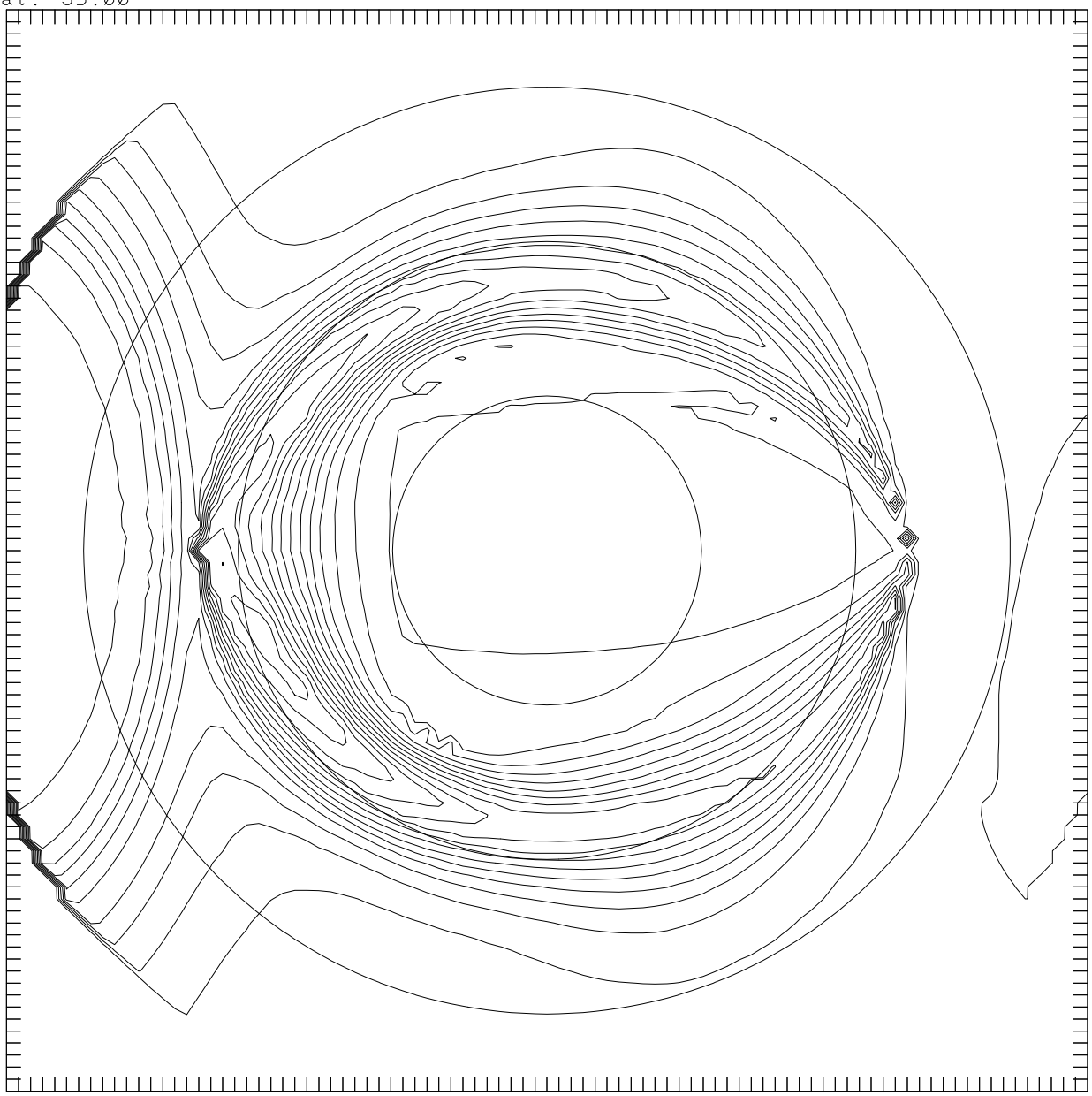
min 0.0000 0.0071
lat. 35.00

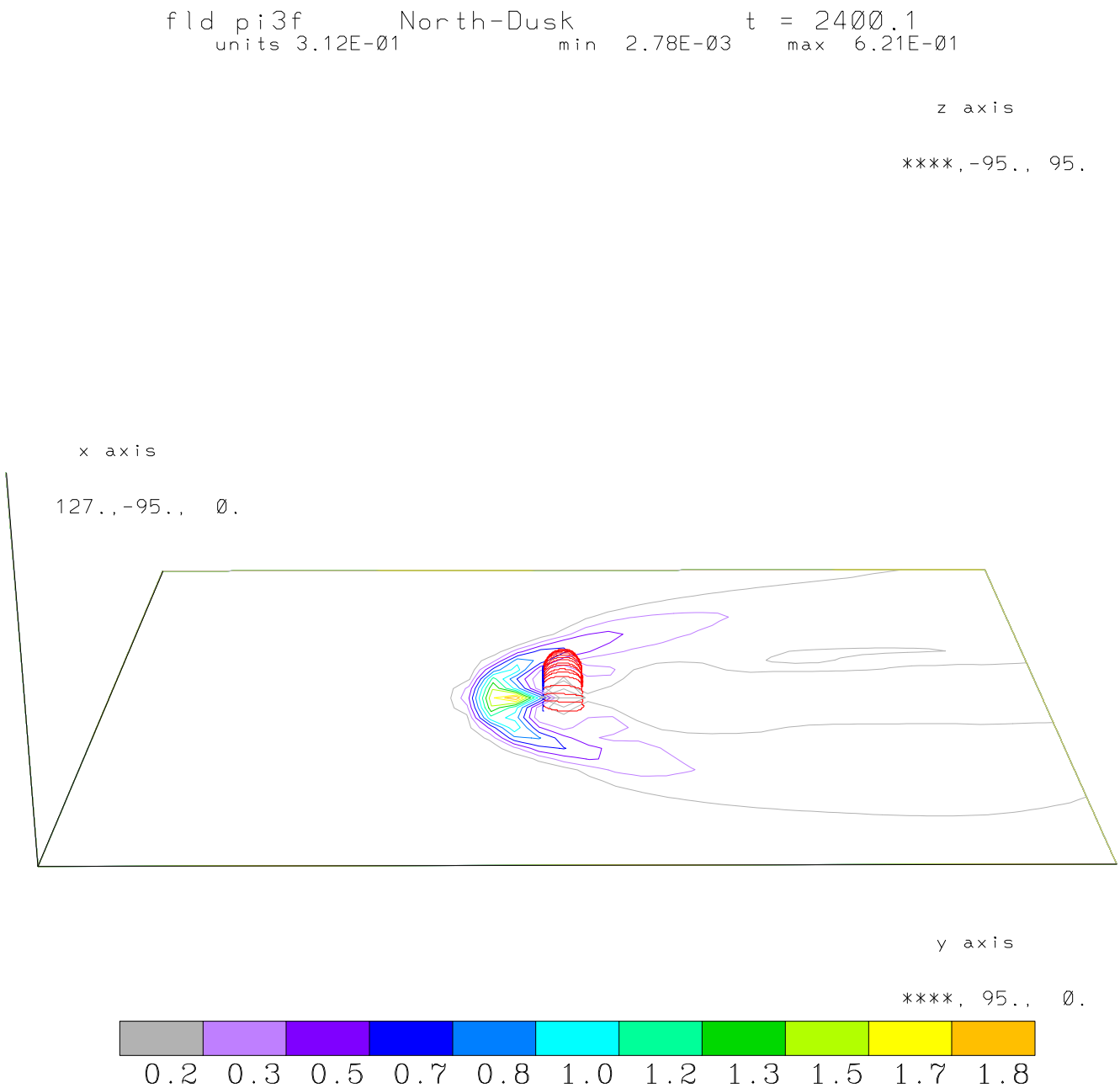
etempnth: intensity ut = 1.89

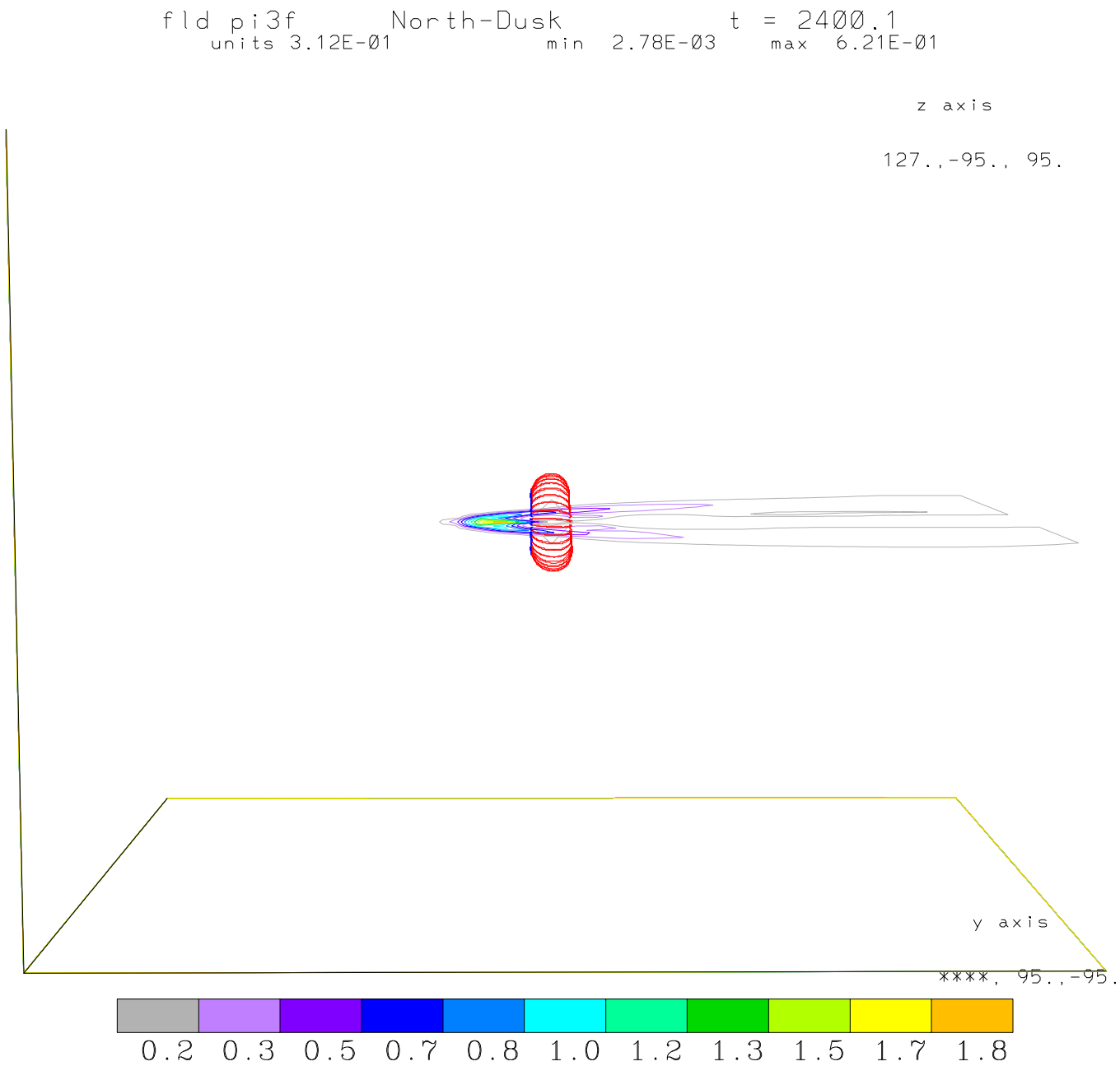


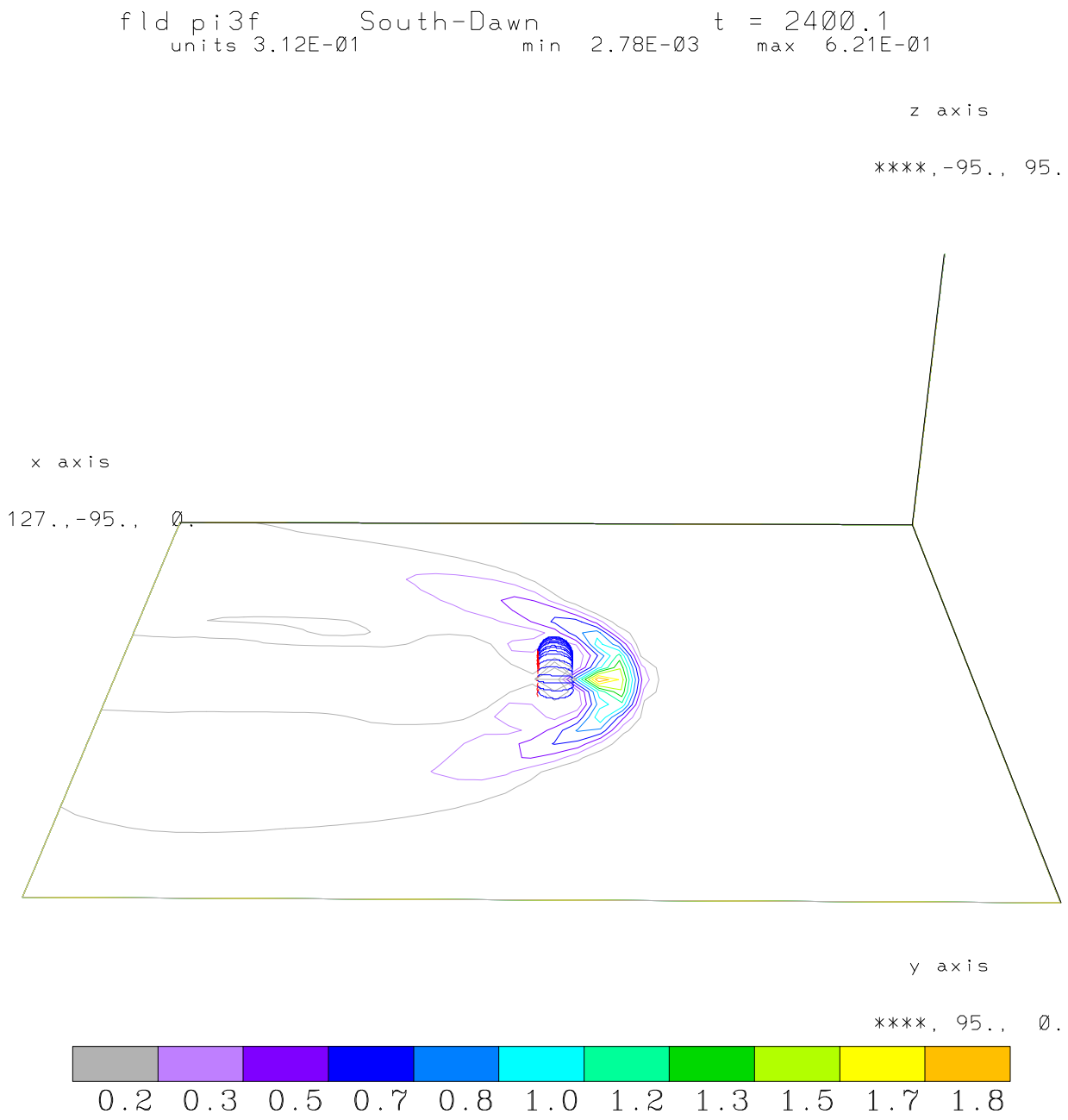
min 0.0000 0.0070
lat. 35.00

etempsth: intensity ut = 1.89




fld pi3f North-Dusk t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
****,-95., 95.
x axis
127.,-95., 0.
y axis
****, 95., 0.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


fld pi3f North-Dusk t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
127.,-95., 95.
y axis
****, 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


fld pi3f South-Dawn t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
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x axis
127.,-95., 0.
y axis
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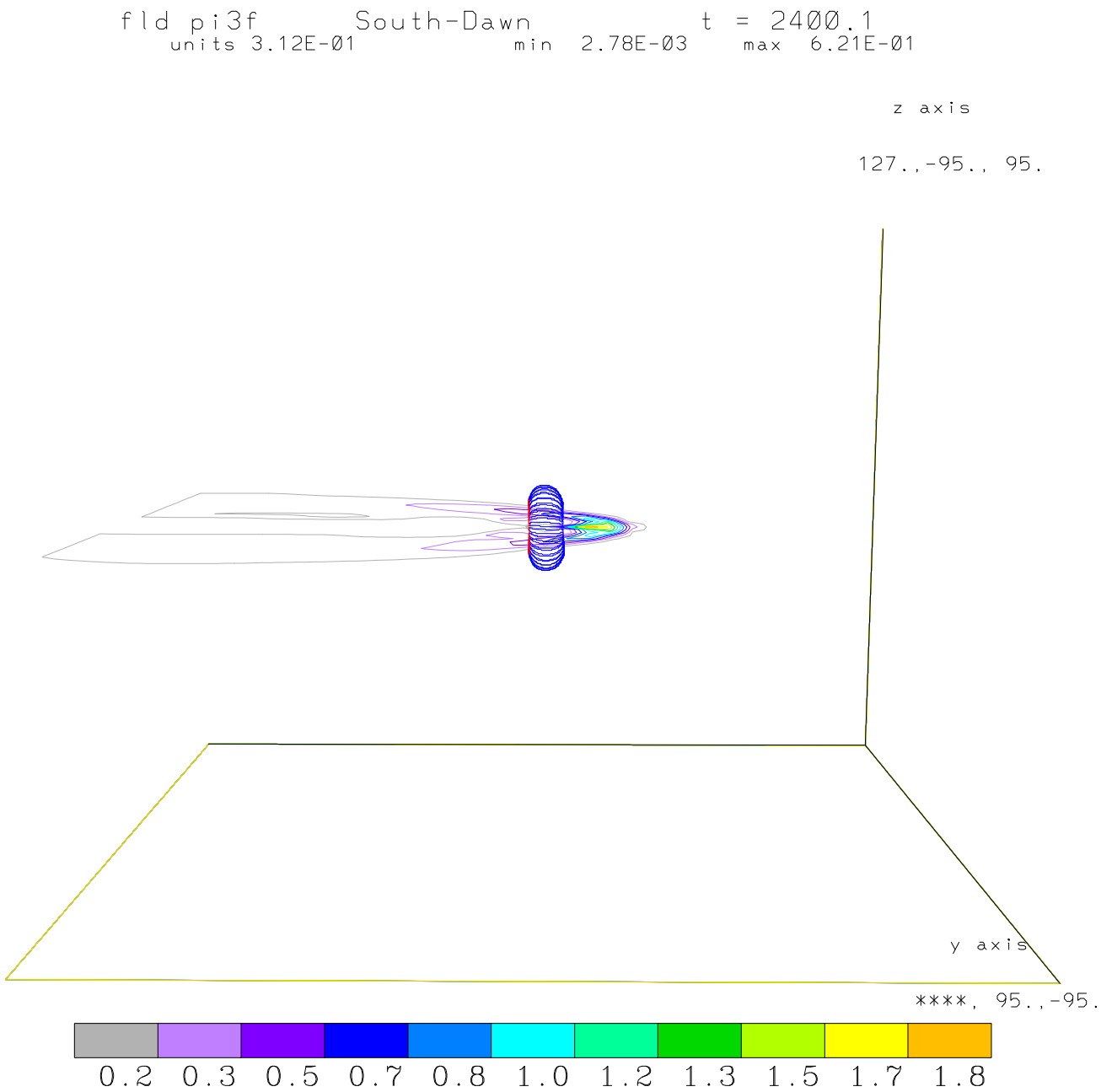
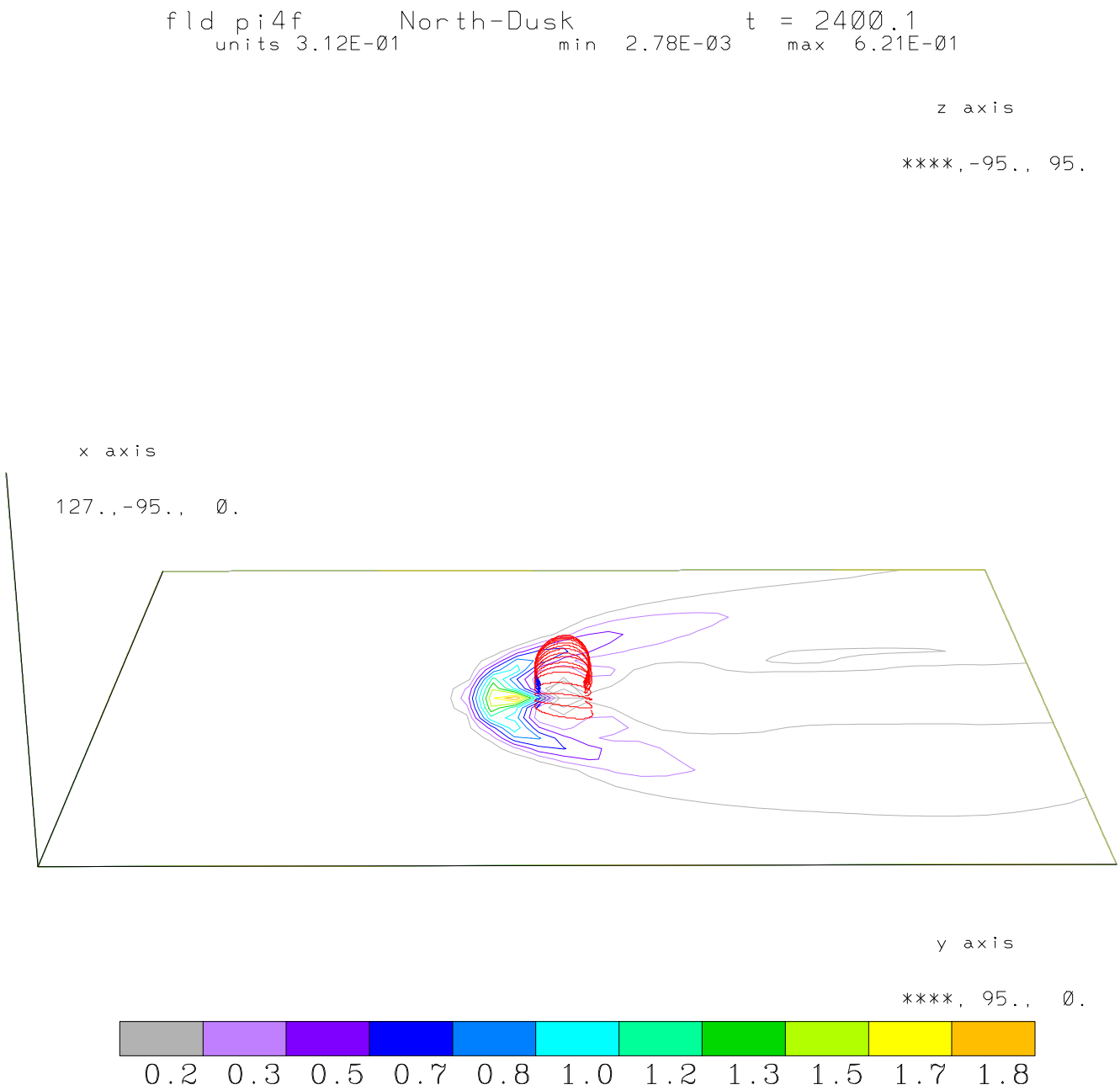
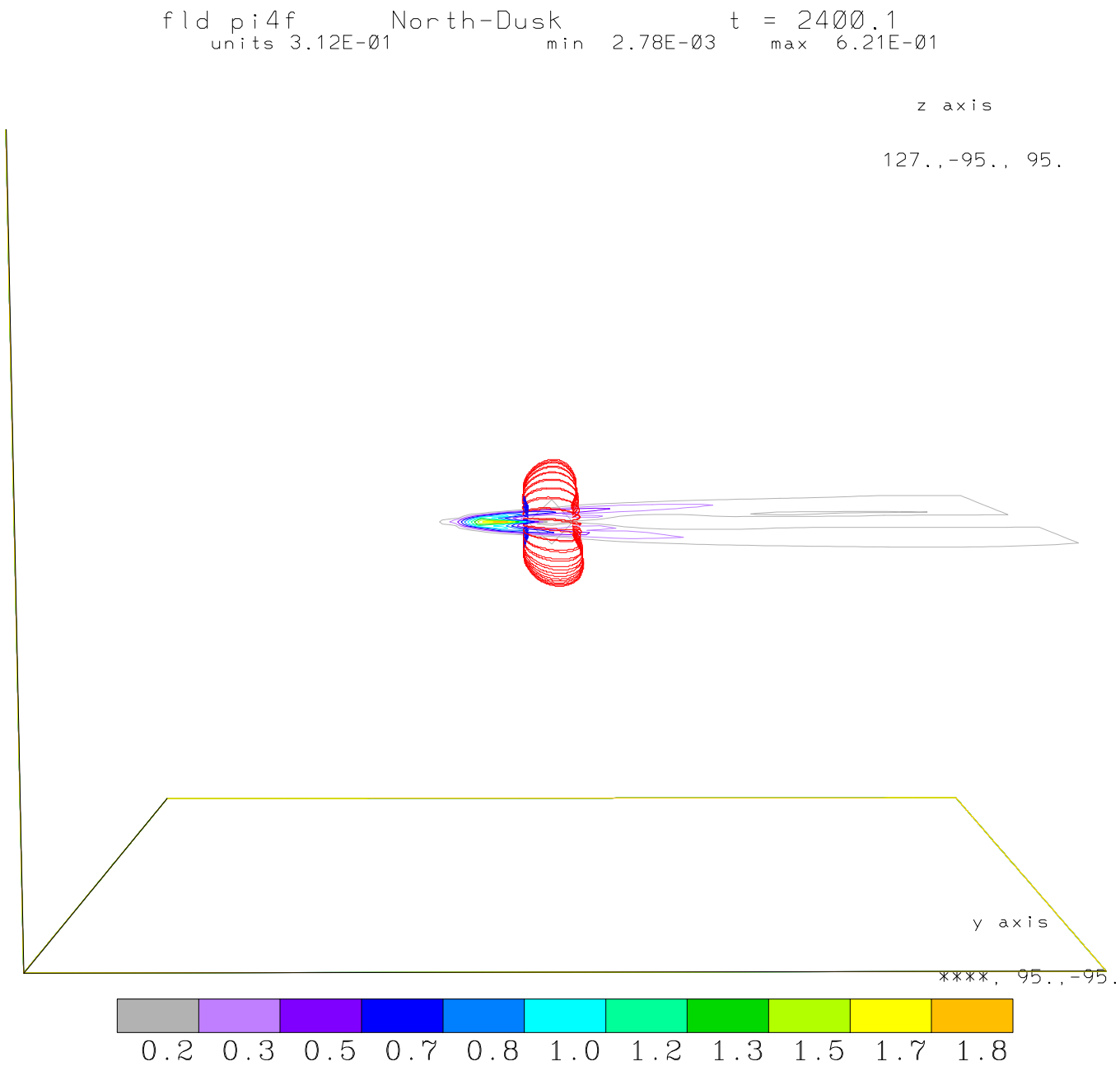
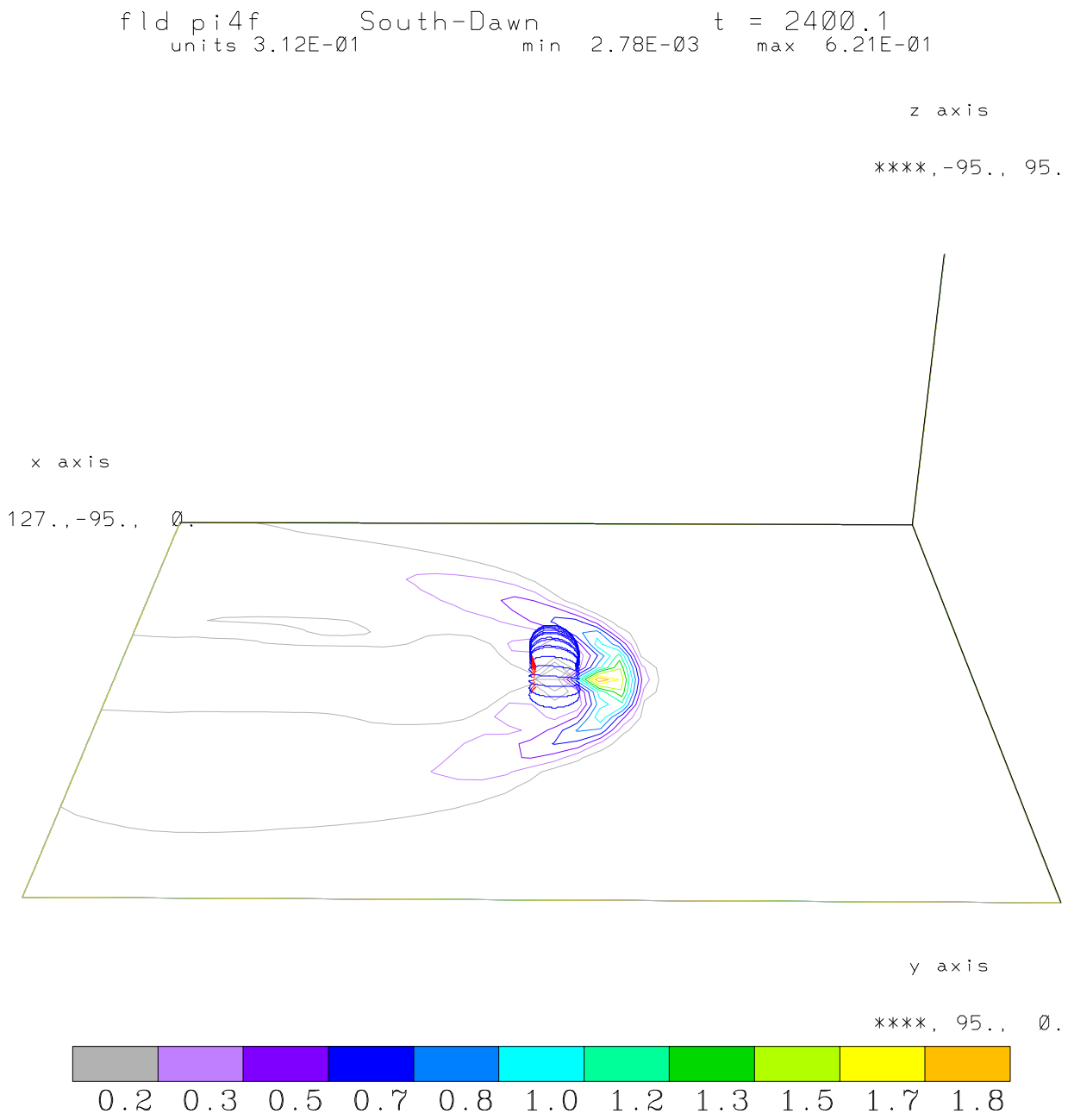
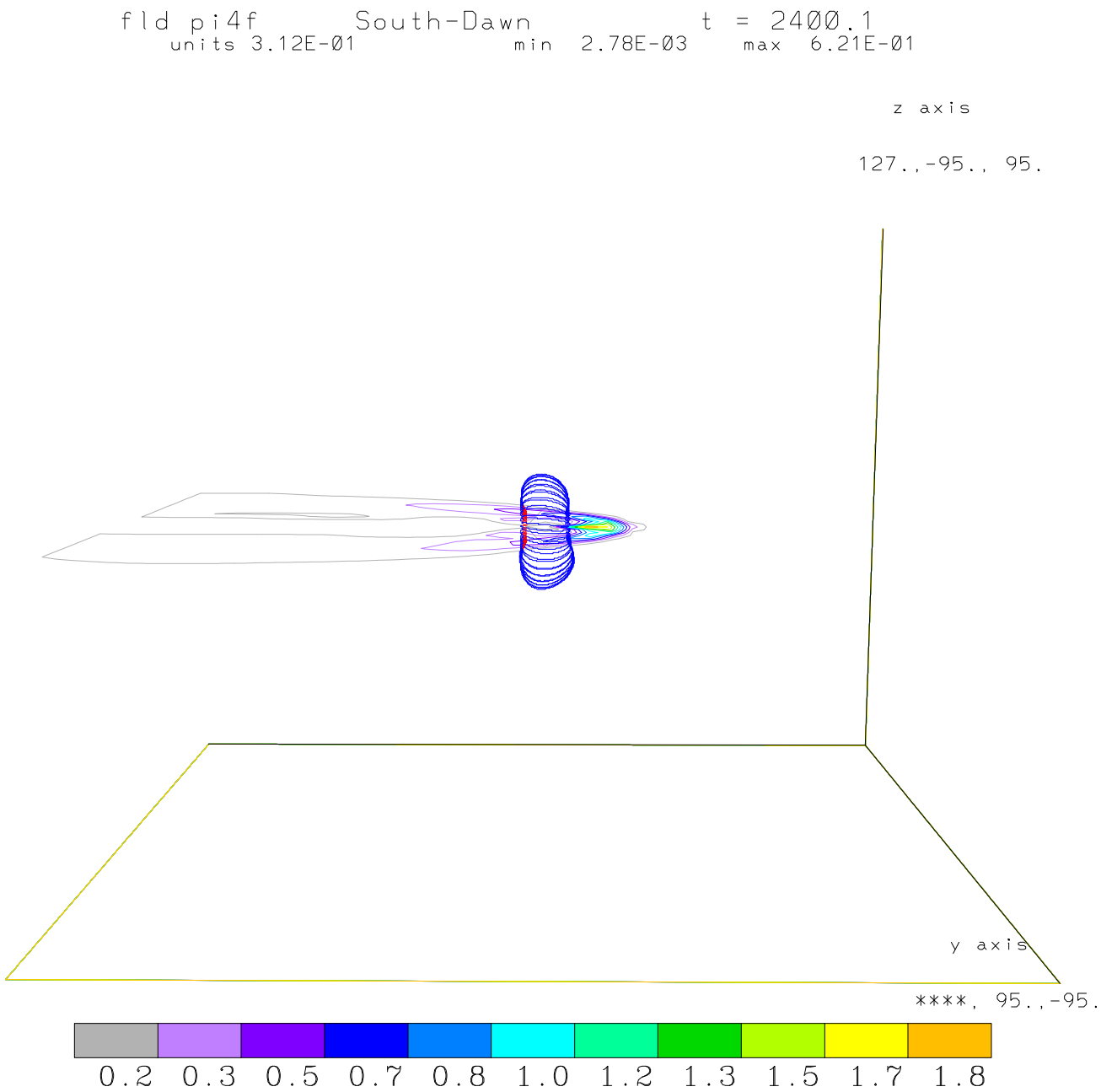
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


fld pi3f South-Dawn t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
127.,-95., 95.
y axis
****, 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


fld pi4f North-Dusk t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
****,-95., 95.
x axis
127.,-95., 0.
y axis
****, 95., 0.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

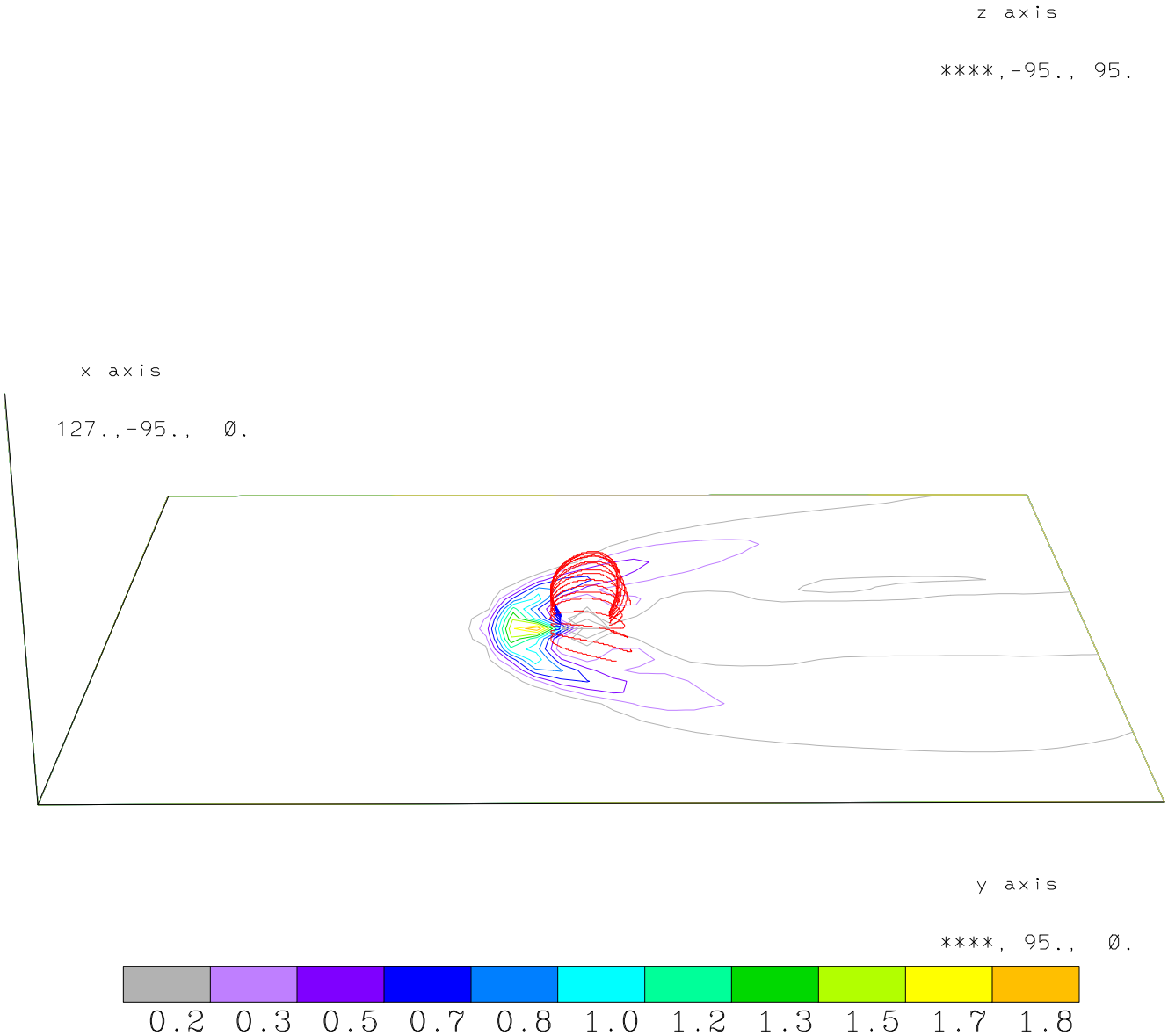

fld pi4f North-Dusk t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
127.,-95., 95.
y axis
****, 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

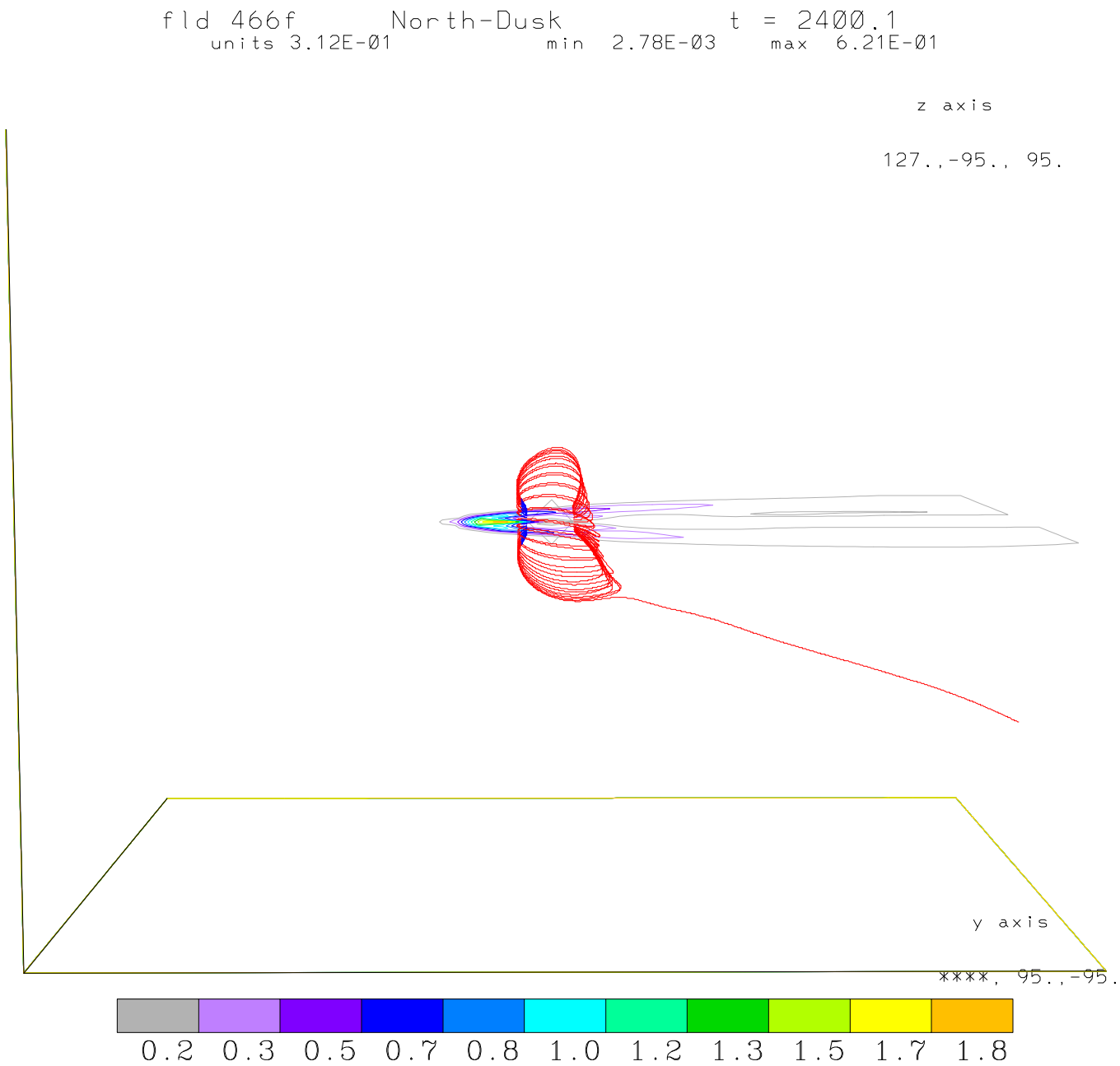

fld pi4f South-Dawn t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
****,-95., 95.
x axis
127.,-95., 0.
y axis
****, 95., 0.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8


fld pi4f South-Dawn t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
127.,-95., 95.
y axis
****, 95.,-95.
0.2 0.3 0.5 0.7 0.8 1.0 1.2 1.3 1.5 1.7 1.8

fld 466f North-Dusk t = 2400.1

units 3.12E-01 min 2.78E-03 max 6.21E-01




fld 466f North-Dusk t = 2400.1
units 3.12E-01 min 2.78E-03 max 6.21E-01
z axis
127.,-95., 95.
y axis
****, 95.,-95.
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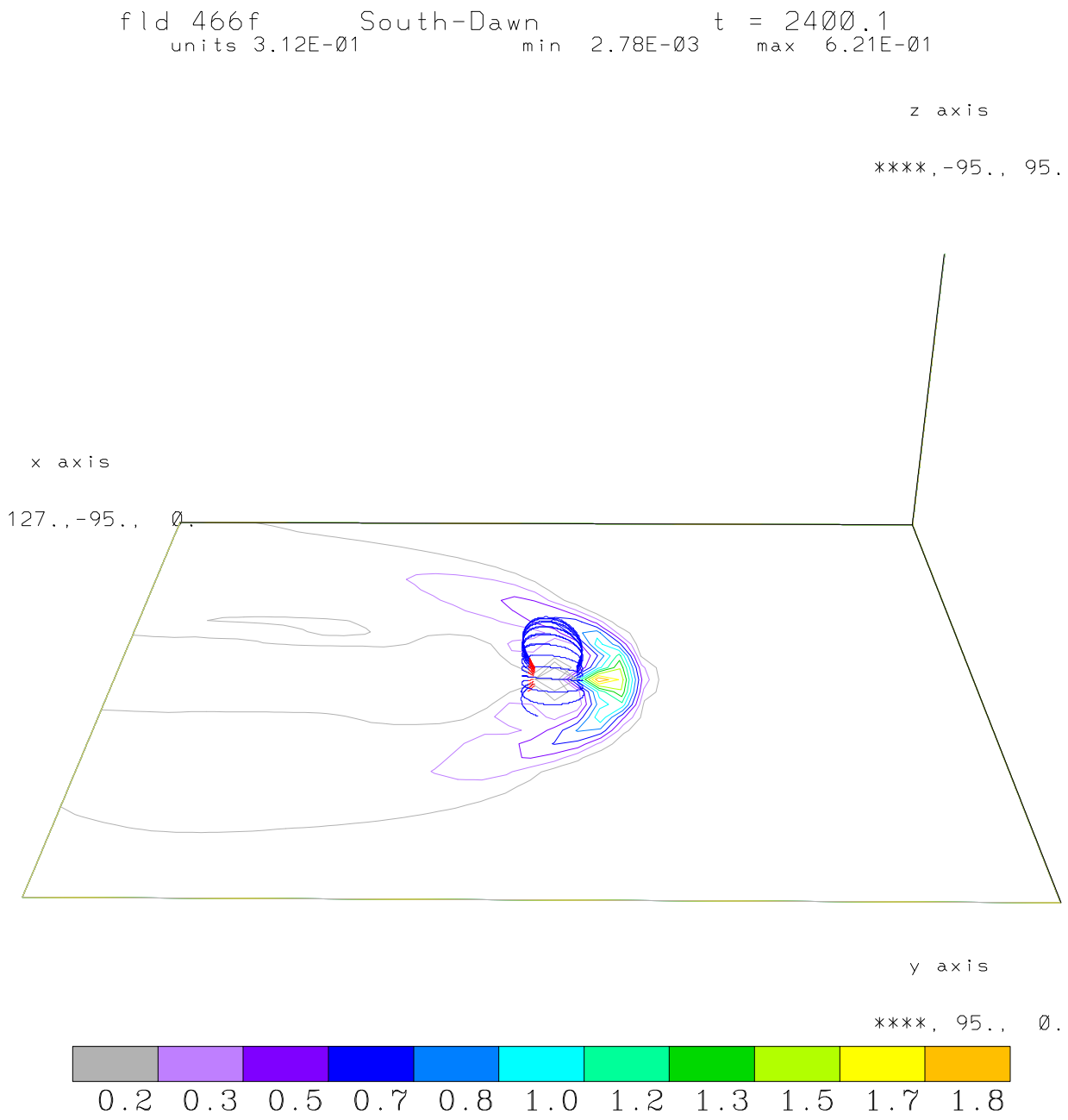
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y axis
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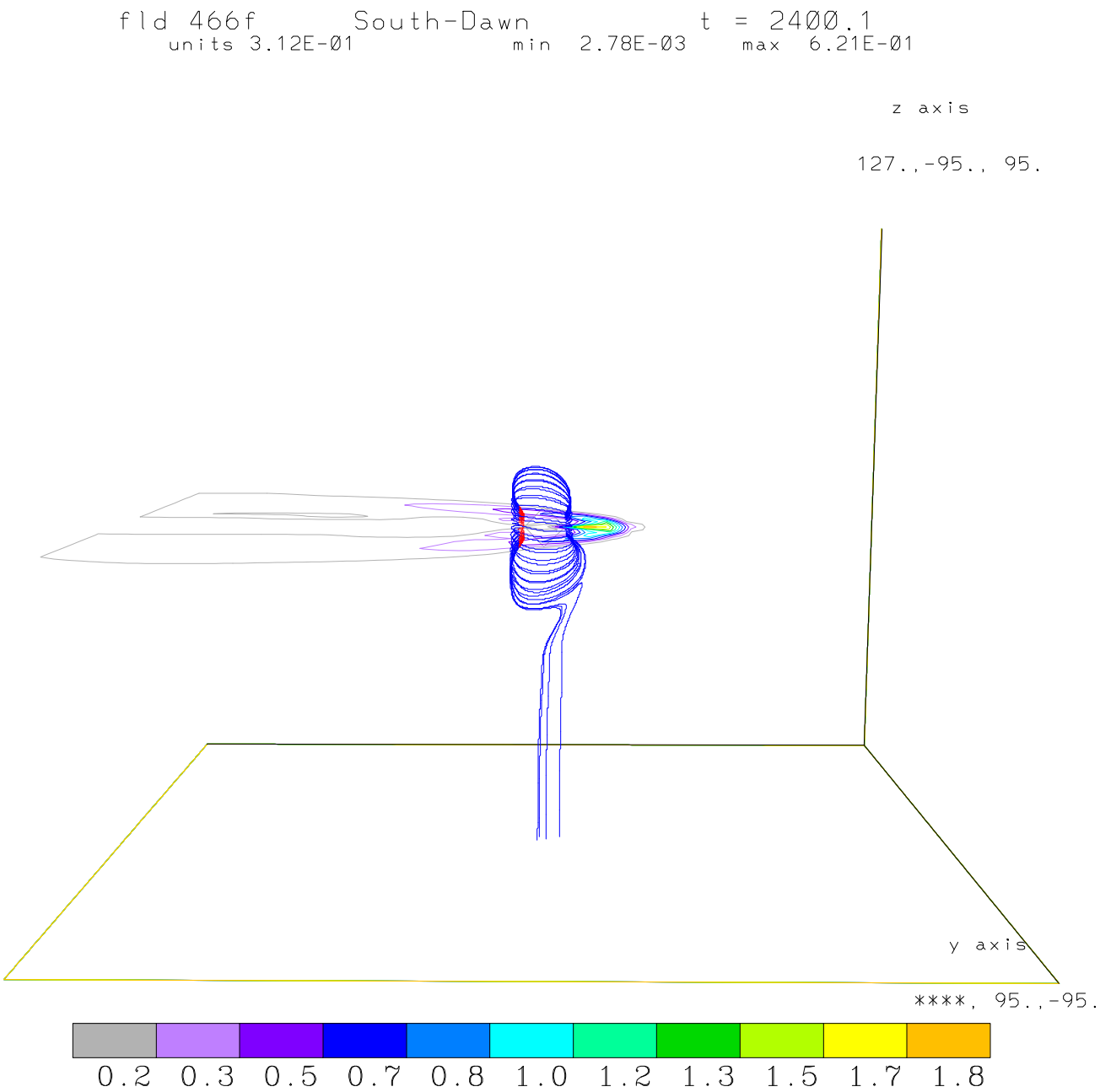
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y axis
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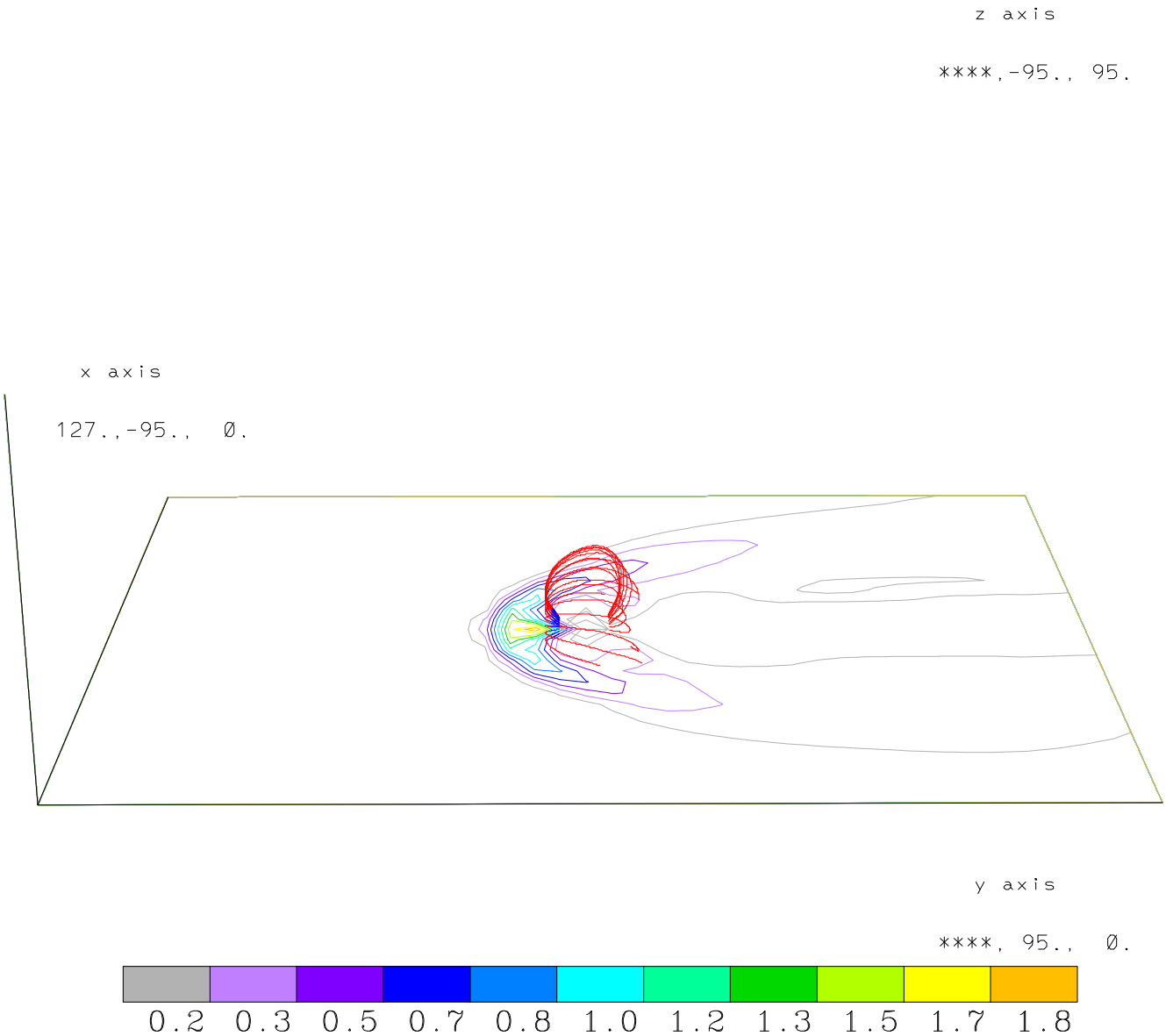
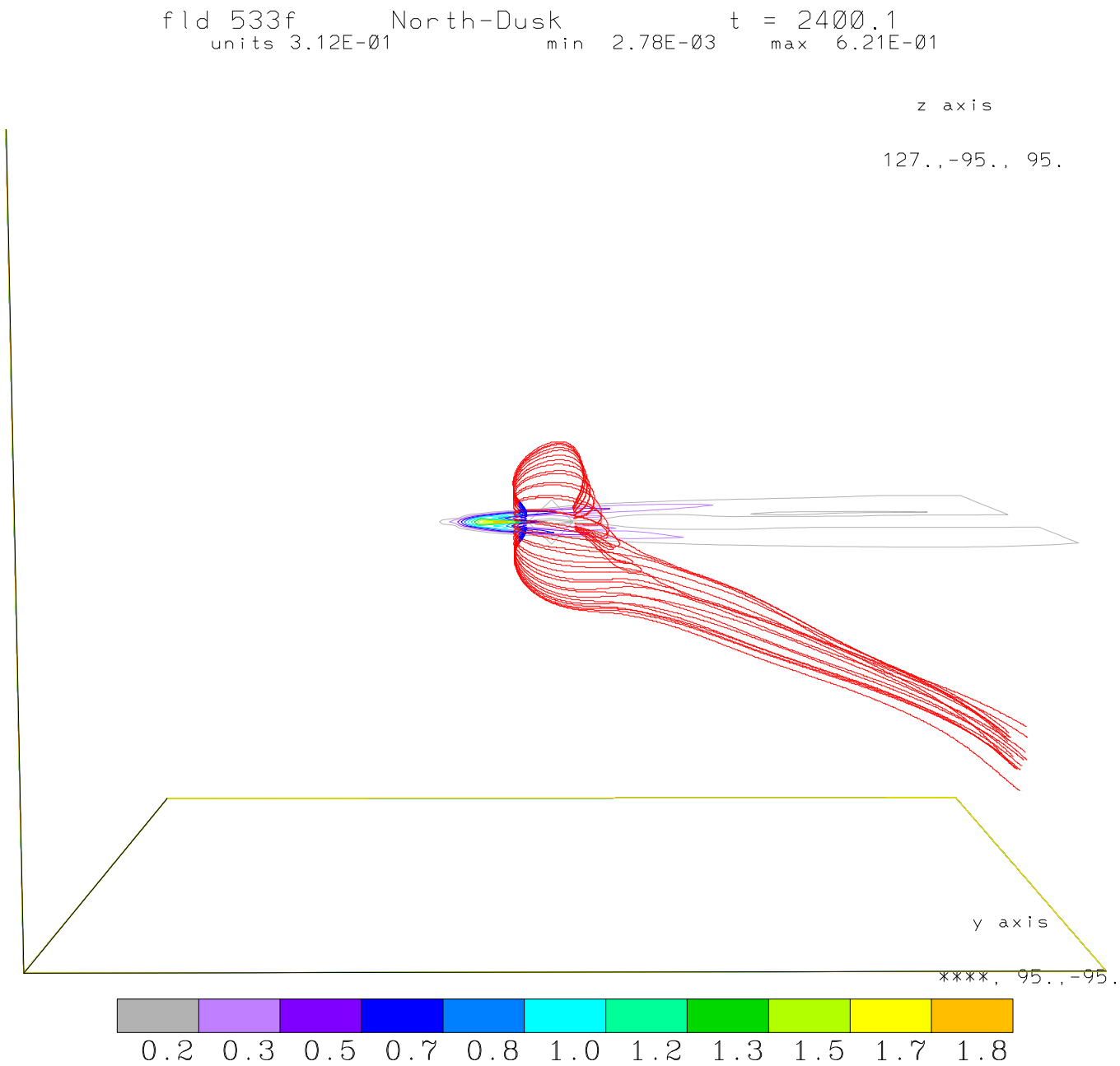
units 3.12E-01 min 2.78E-03 max 6.21E-01

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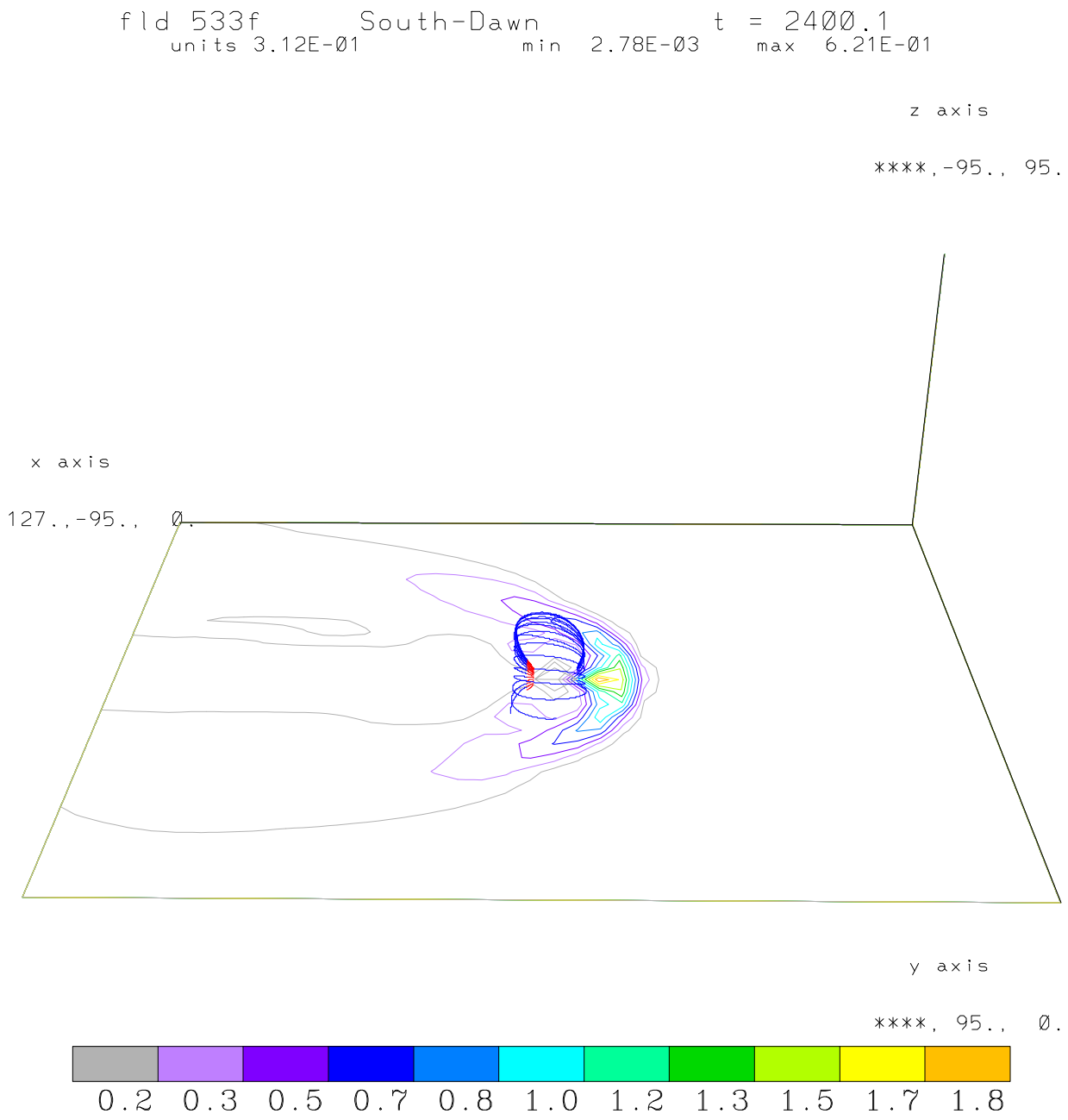
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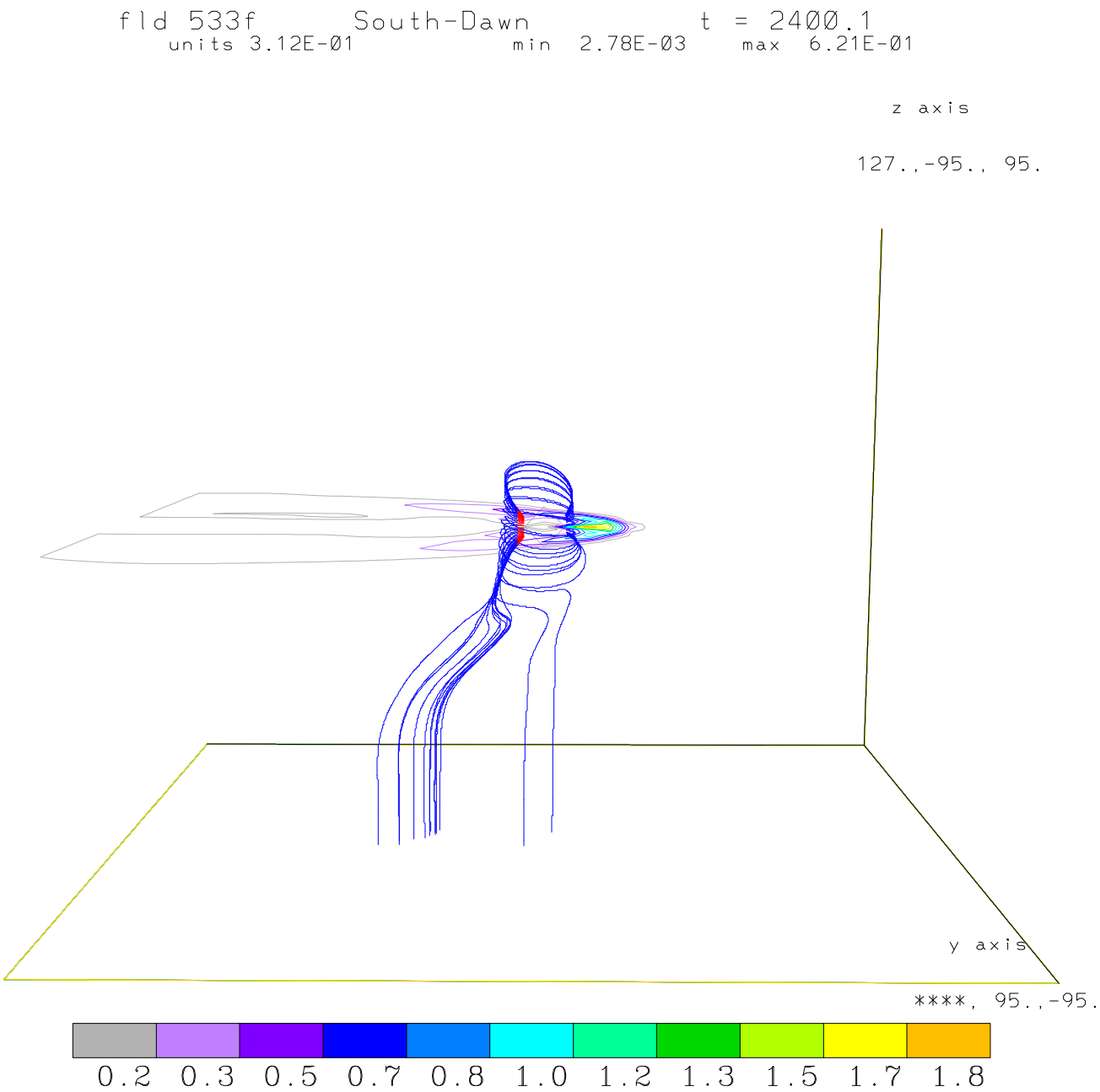
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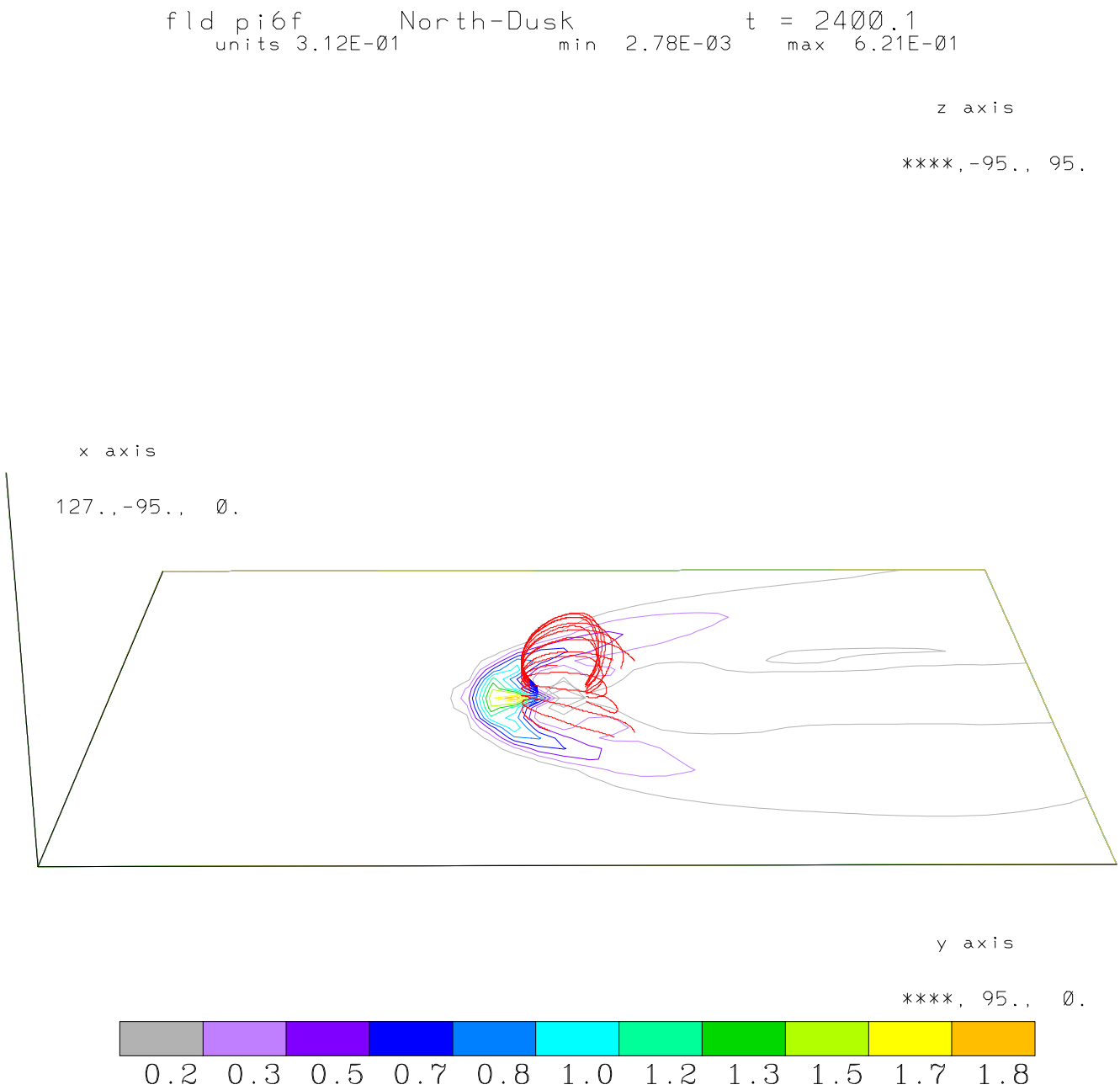
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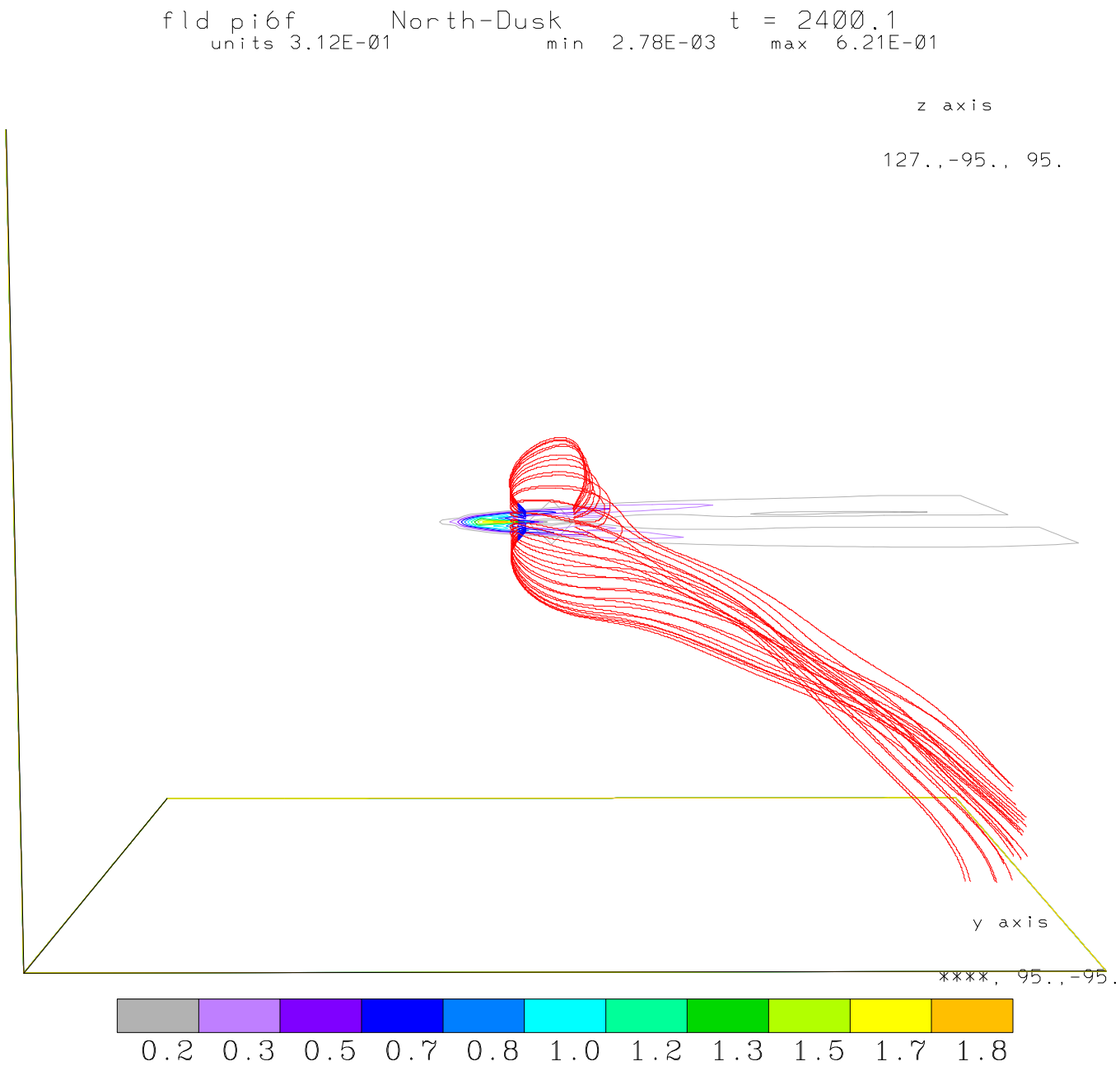
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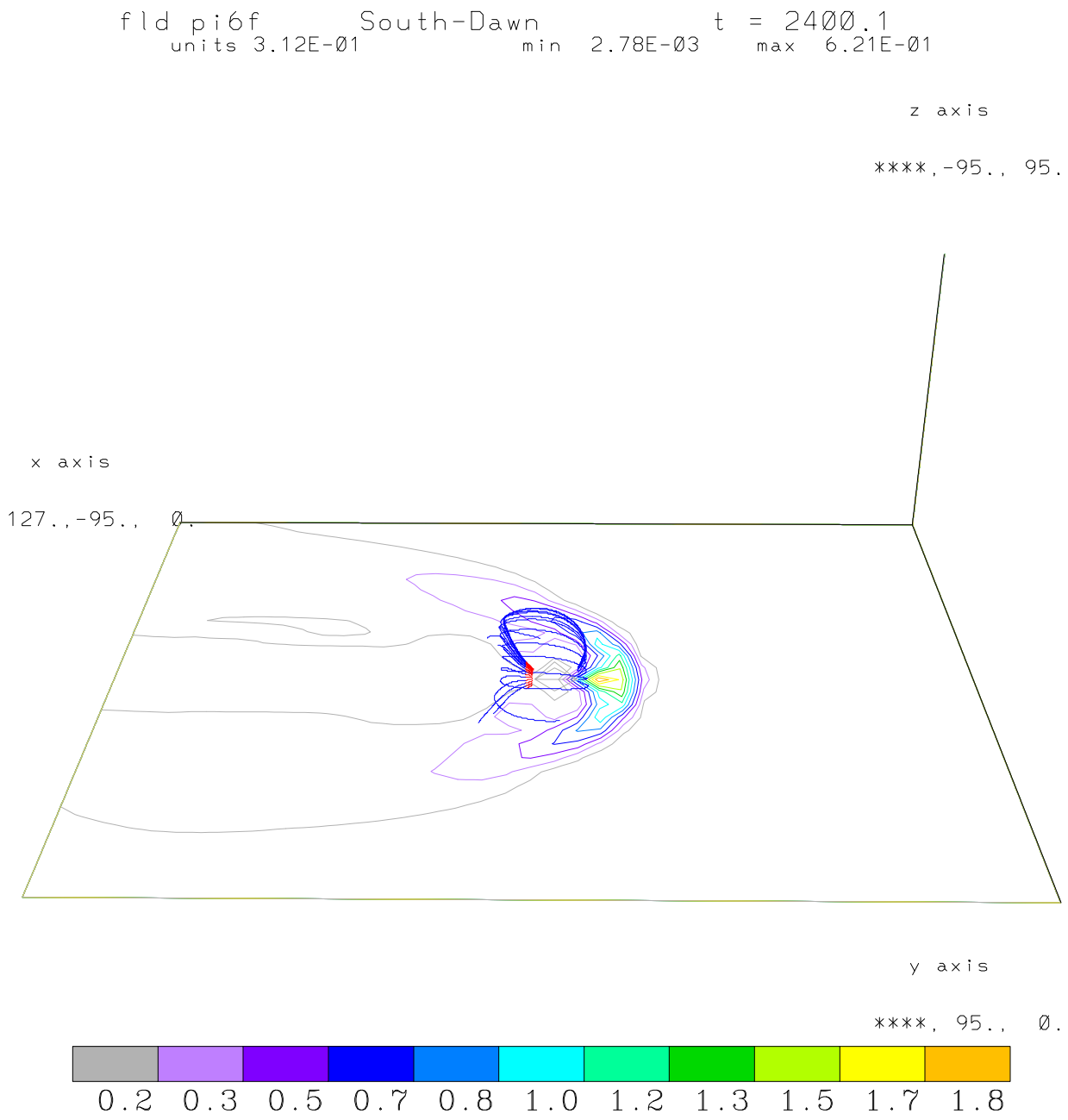
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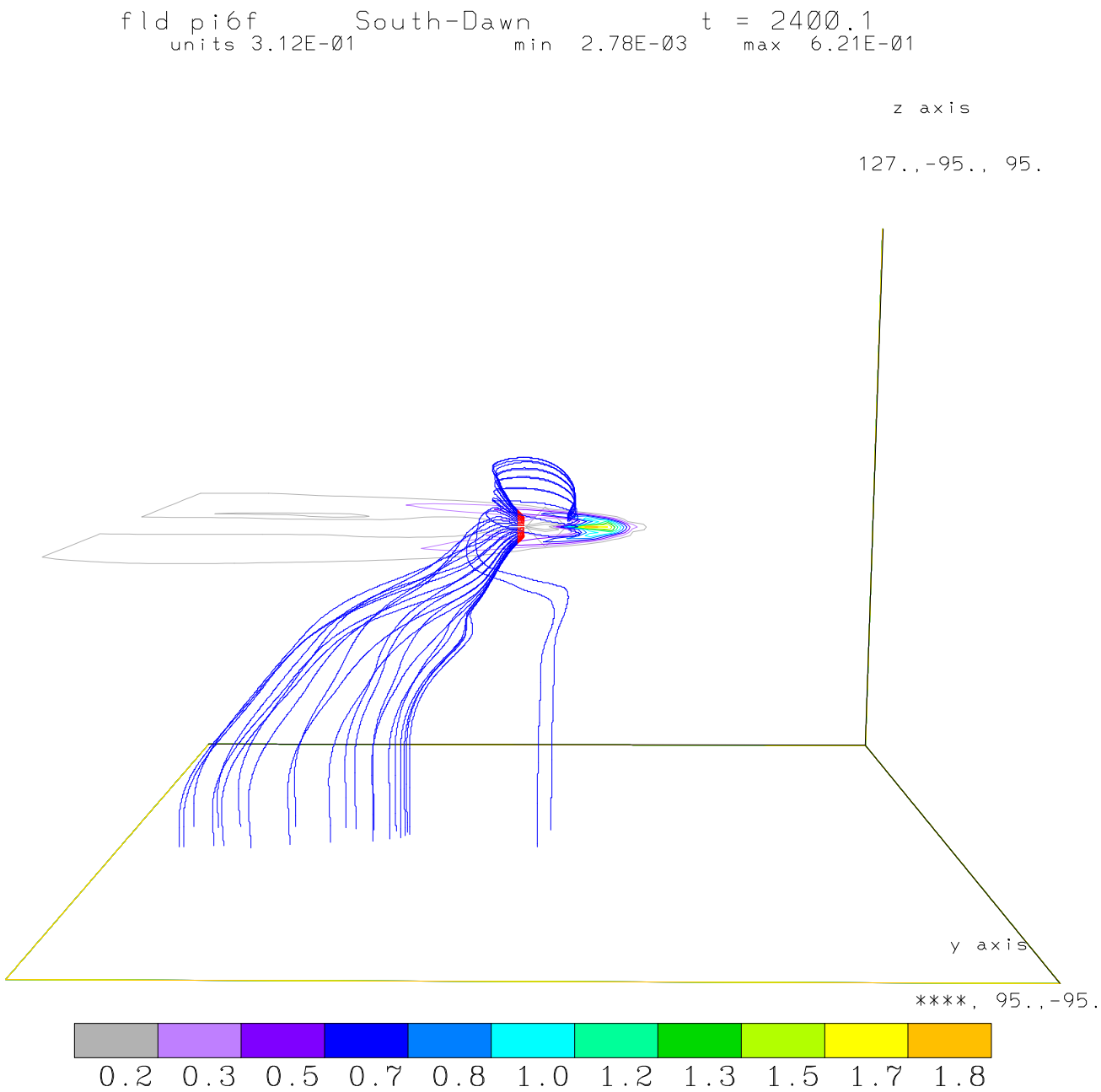
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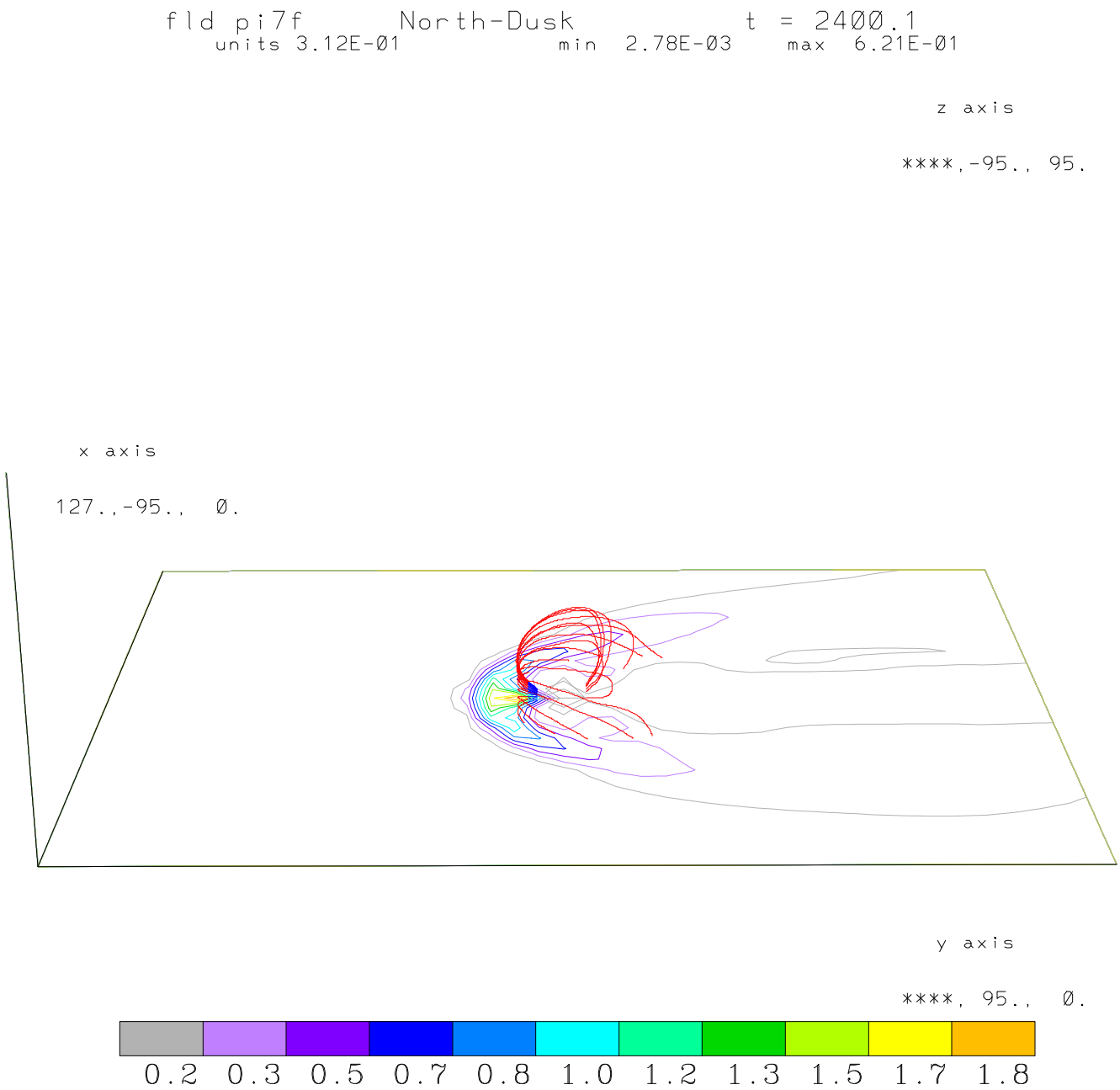
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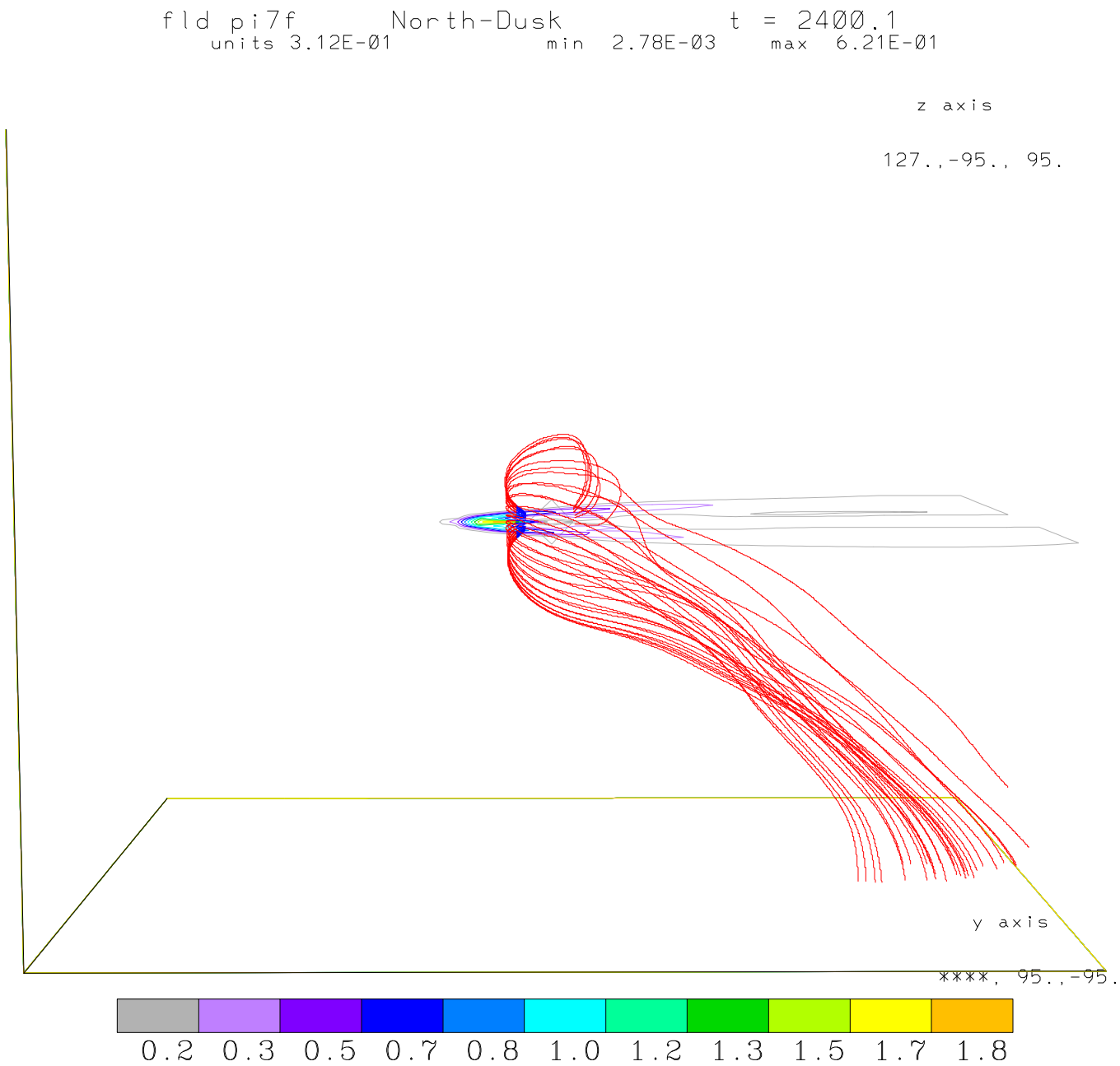
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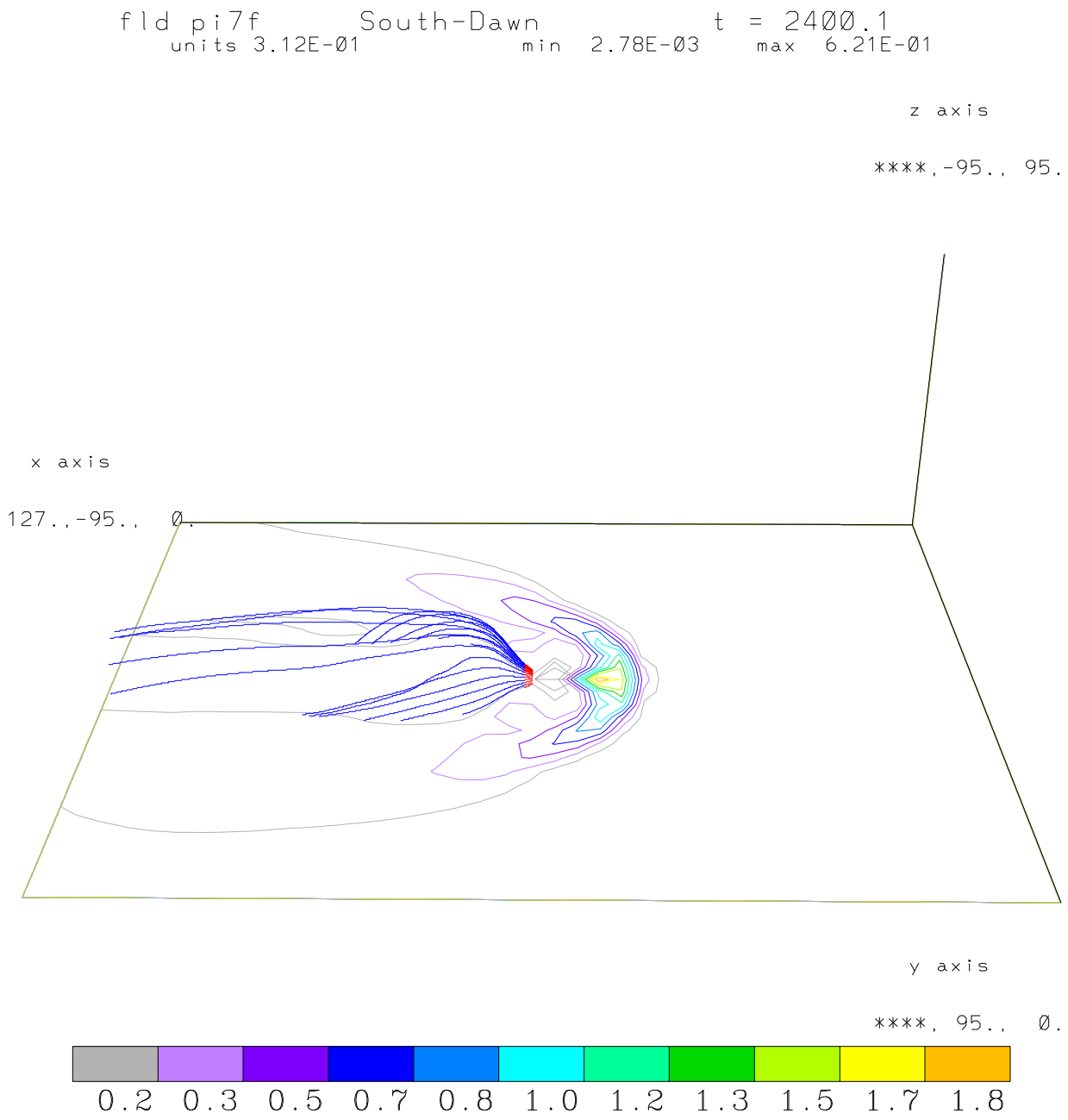
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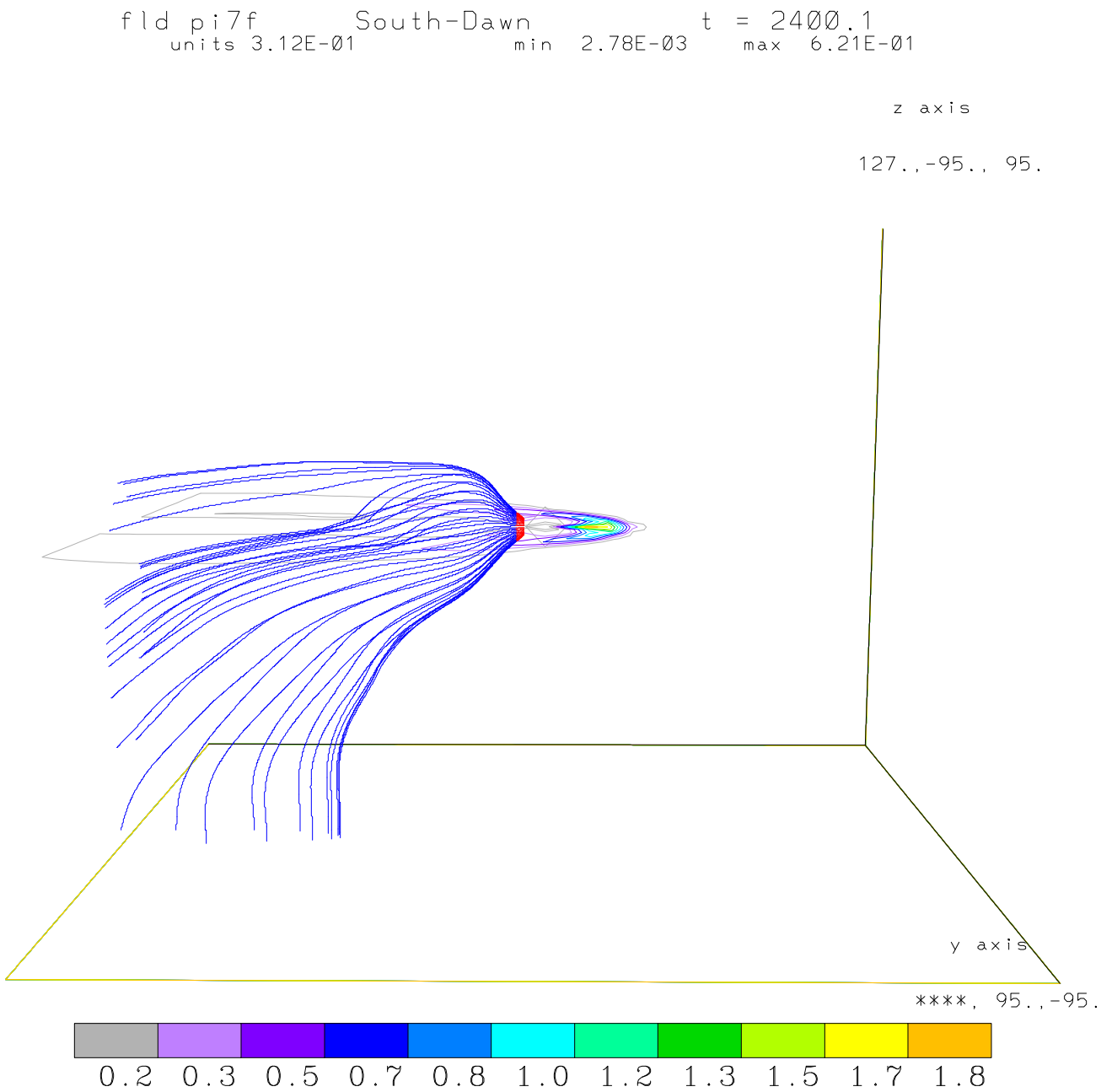
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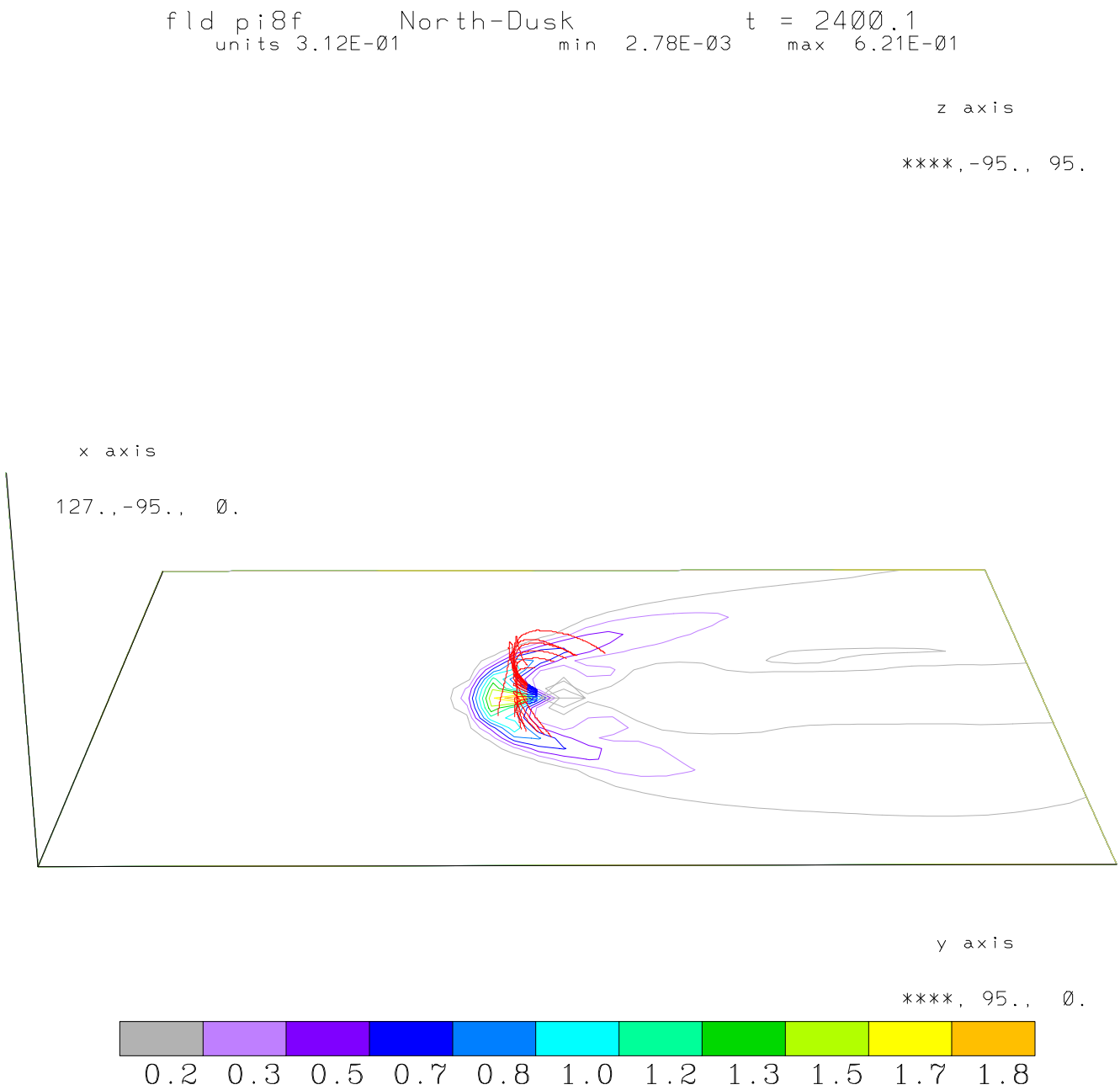
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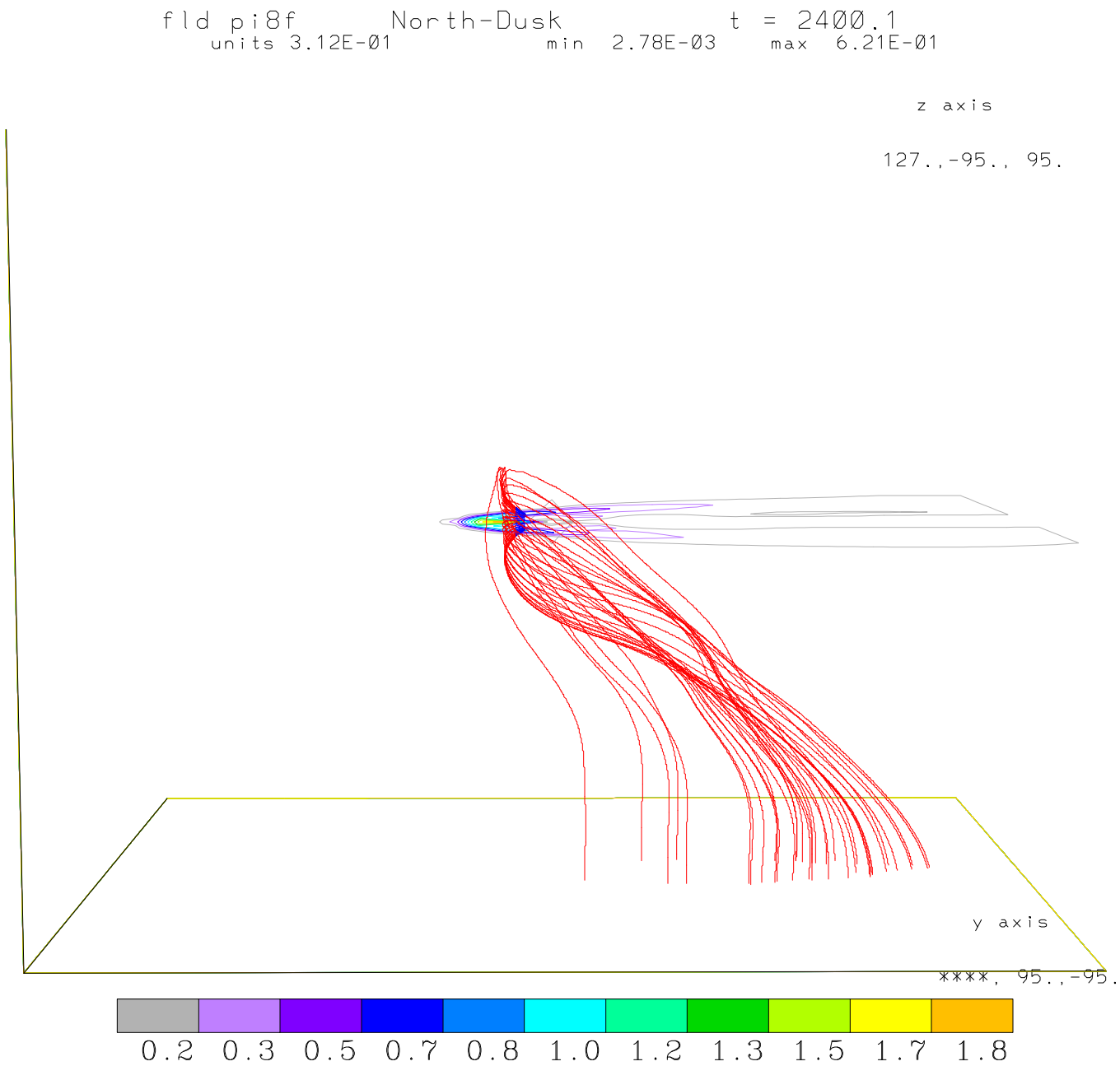
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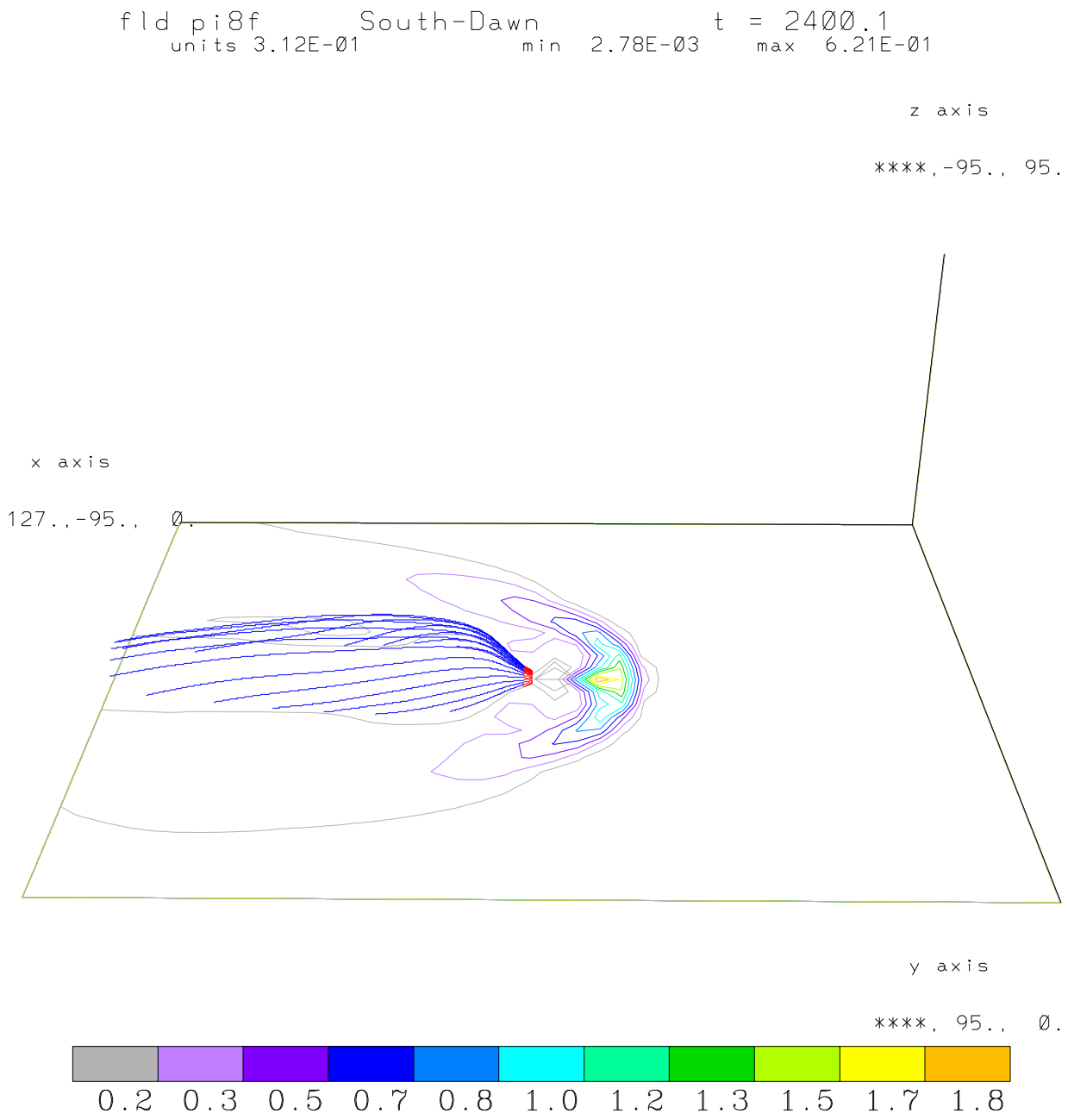
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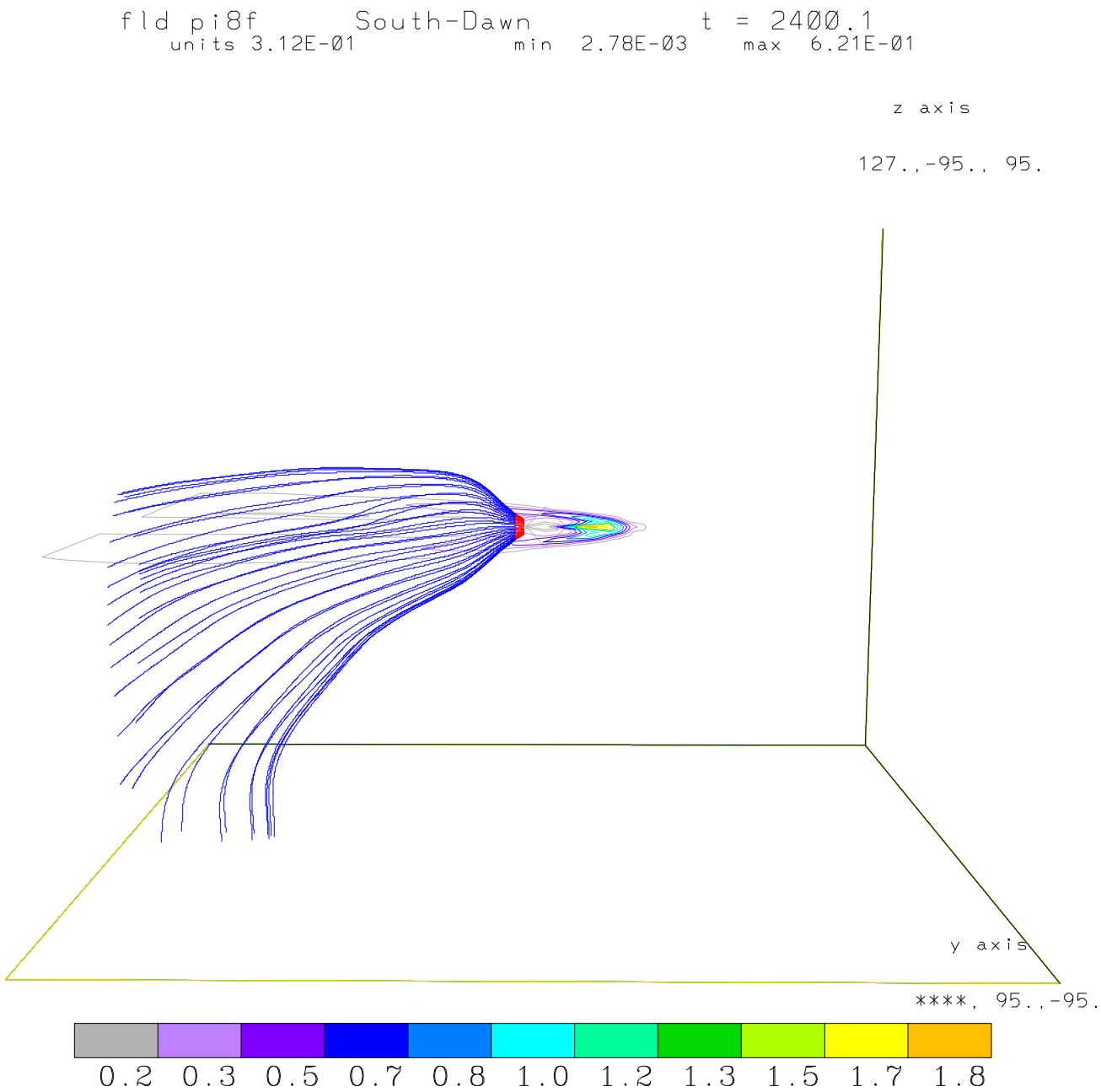
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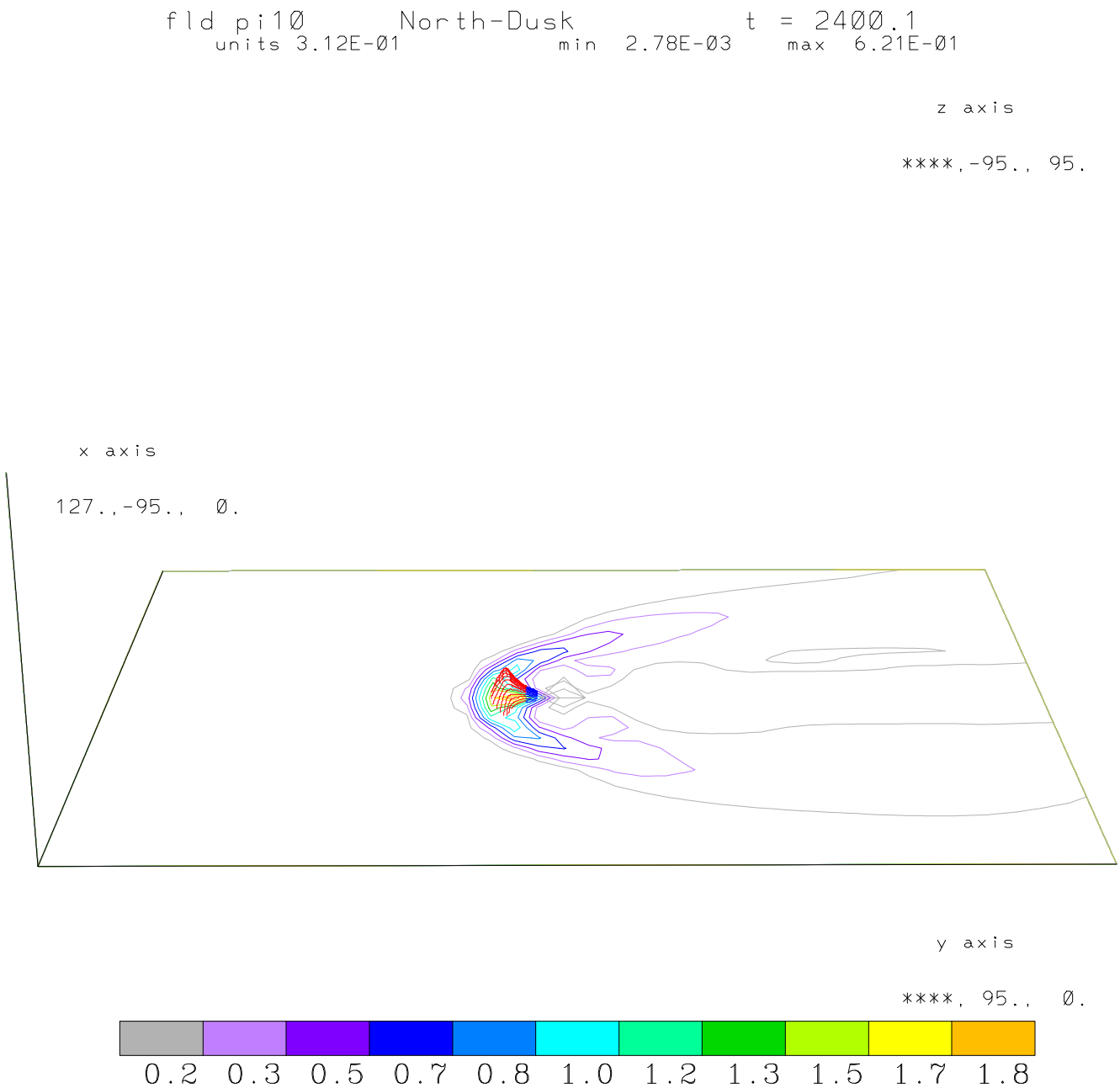
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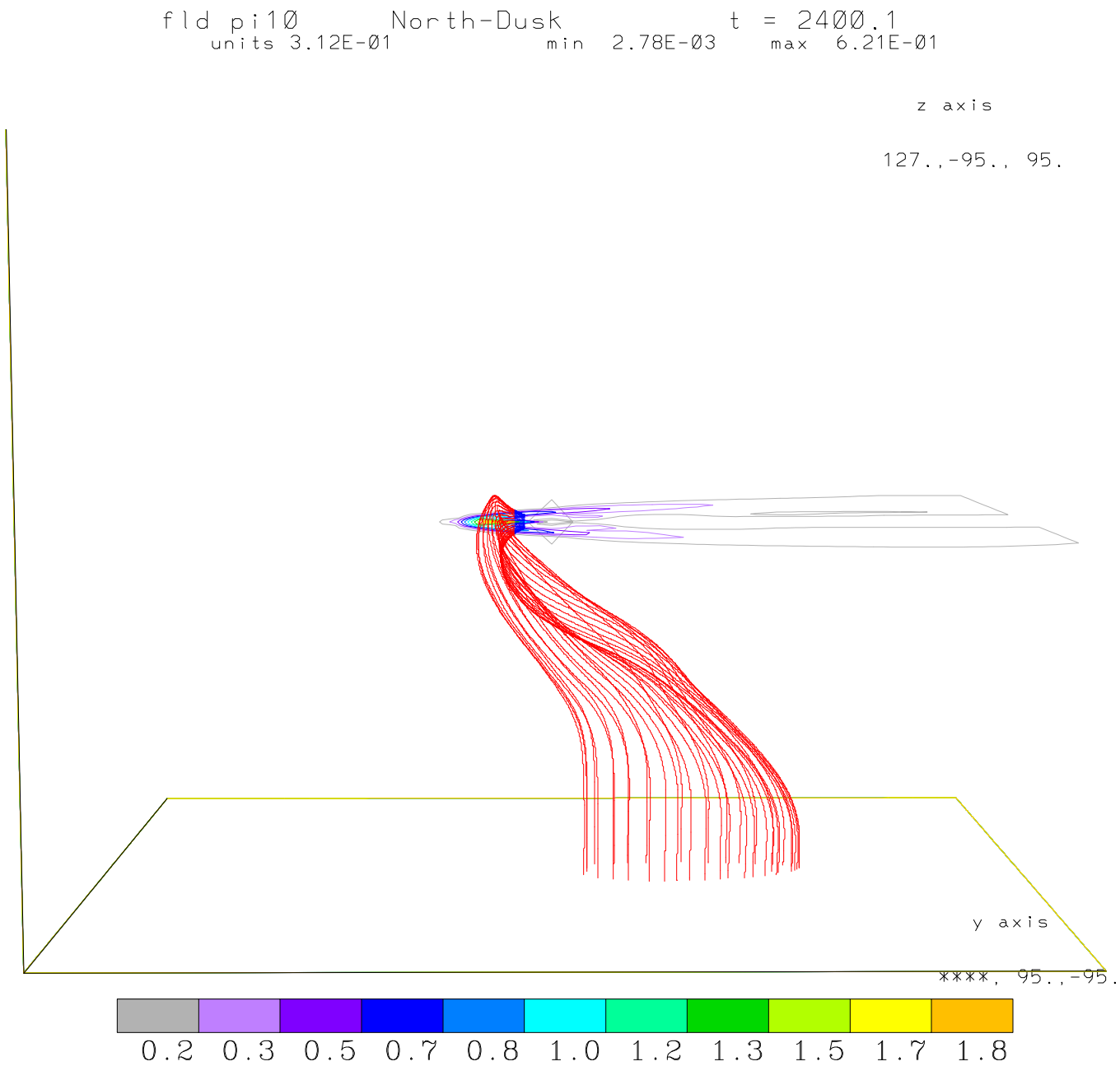
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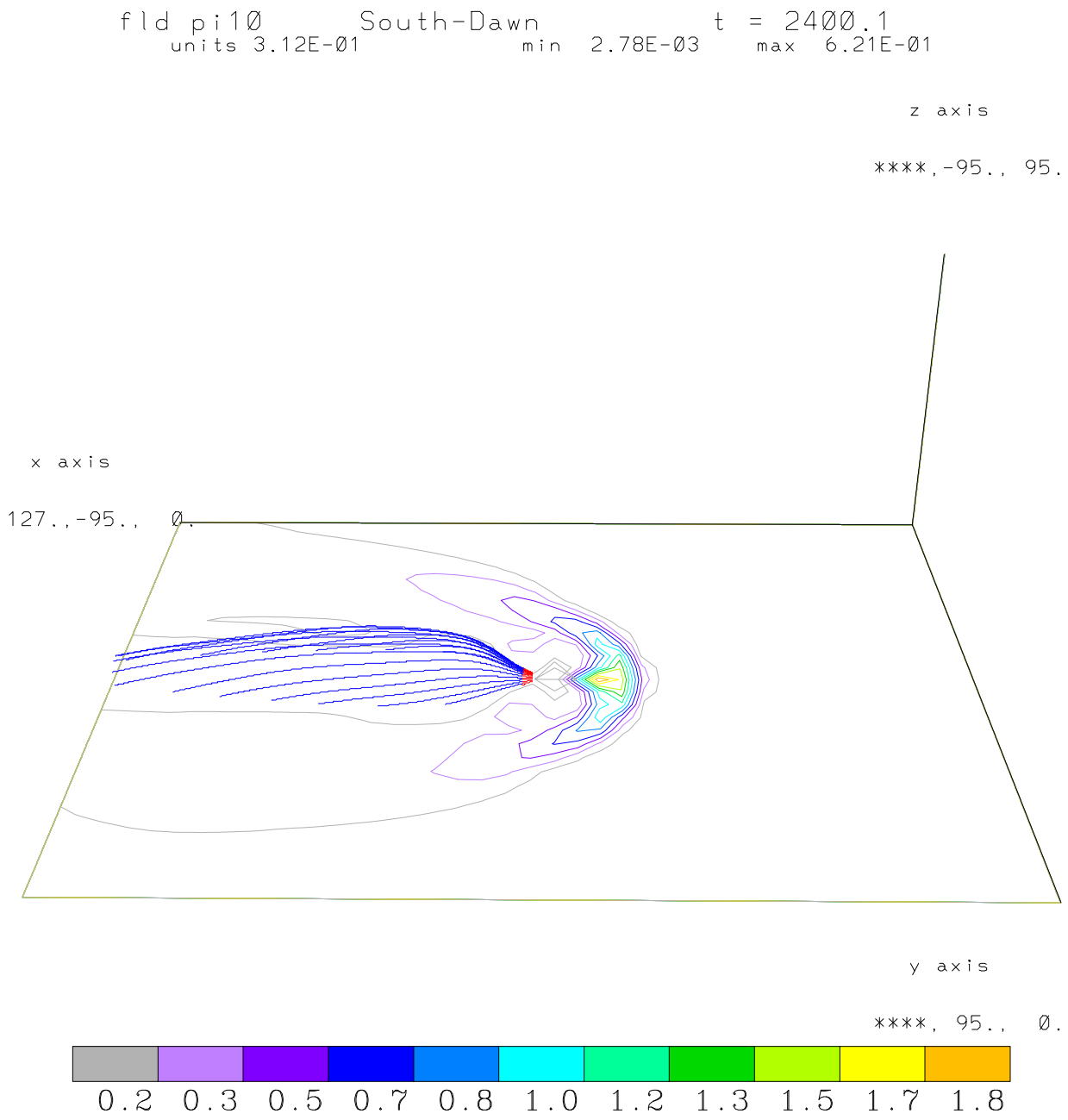
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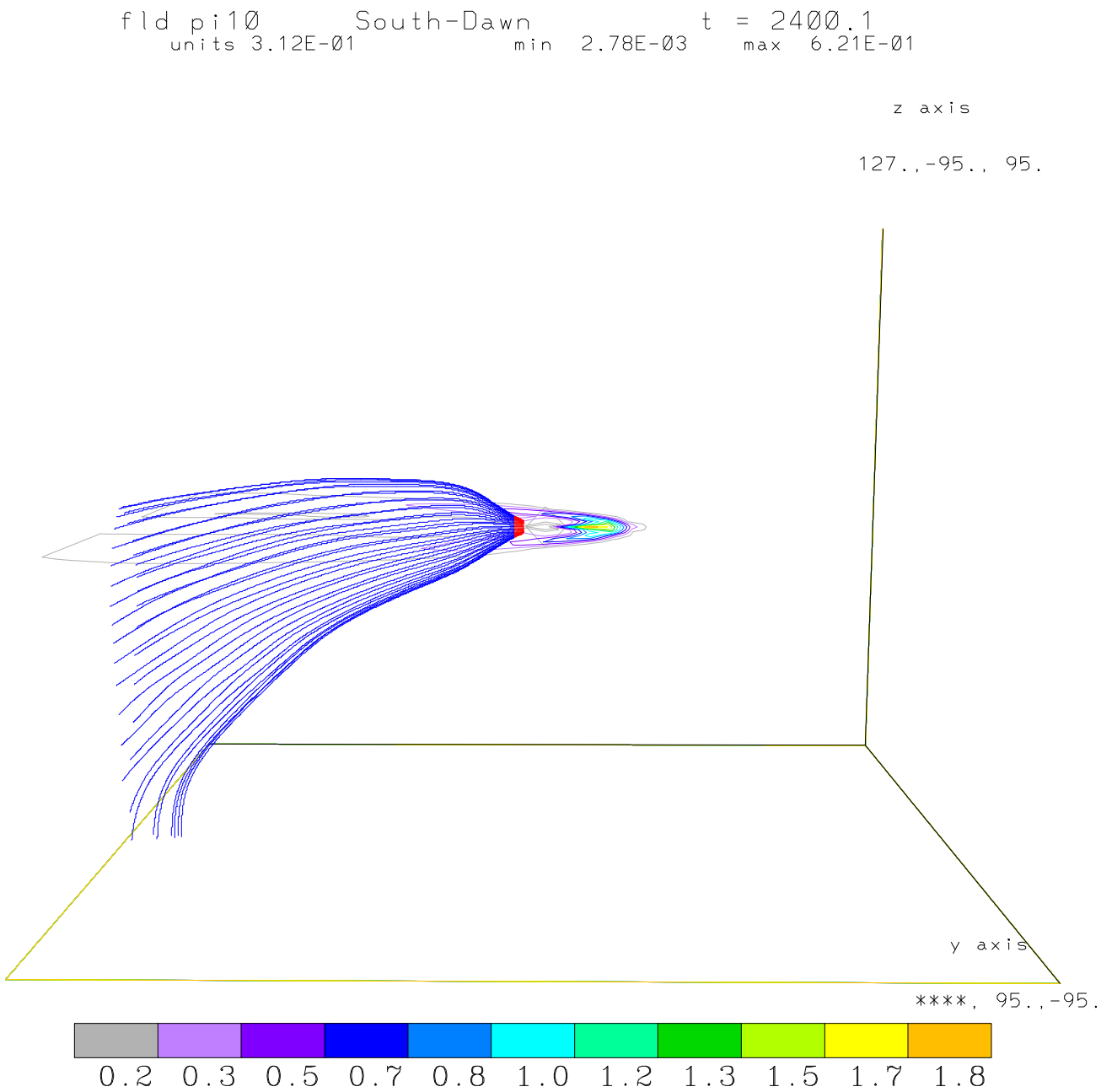
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