Subject: simulating a jet like feature
Posted by K.Chandrashekhar Redd on Wed, 01 Aug 2012 17:21:16 GMT
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Can any one help with a simulating a jet like feature with sinusoidal oscillations along the length of the jet... I tried I am attaching the programme here..... but sinusoidal feature is missing and I could not do

```
npx=600
npy=300
npt=100

im=fltarr(npx,npy,npt)

for k=0,npy-1 do begin
for j=0,npt-1 do begin

im[149+(k mod 50)-j:179+(k mod 50)-j,k,j]=25.


endfor
endfor

help,im
window,0
!p.multi=[0,1,2]
plot_image,reform(im(*,*,10))
plot_image,reform(im(*,*,99))
!p.multi=0

; stop
tmp=im[*,*,*]
nf=n_elements(tmp[0,0,*])

x1=50.
x2=200.
y1=100.
y2=100.

dy=abs(y2-y1)
dx=abs(x2-x1)
dd=sqrt(dy^2+dx^2)



;for calculating xt-values
if x1 lt x2 then xx=x1 else xx=x2
```

```
if y1 lt y2 then yy=y1 else yy=y2

if abs(x1-x2) lt 75 and abs(y1-y2) lt 75 then np=100  else np=151

x=fltarr(np)
y=fltarr(np)

for i=0,np-1 do begin
x[i]=xx+(abs(x1-x2)/np)*i
y[i]=yy+(abs(y1-y2)/np)*i
endfor

if x1 gt x2 then x=reverse(x)
if y1 gt y2 then y=reverse(y)

xt=fltarr(nf,np)
int=fltarr(np)
for j=0,nf-1 do begin
     for k=1,np-2 do begin
        int[k]=total(tmp[x[k]-5:x[k]+5,y[k],j],1)
     endfor
     if y1 gt y2 then int=reverse(int)
     xt[j,*]=int
endfor

window,2
plot_image,xt



end
```