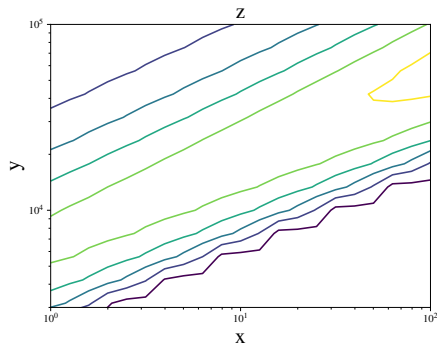
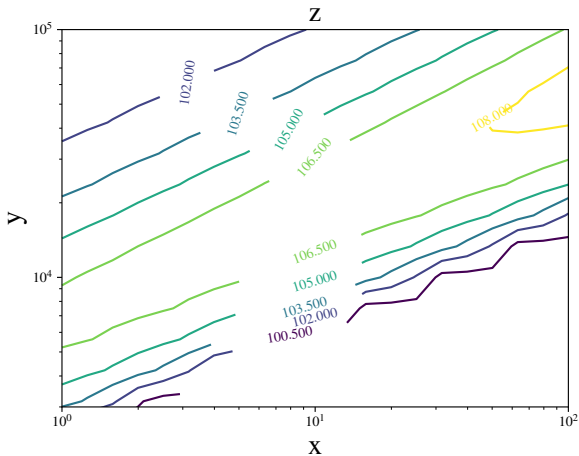


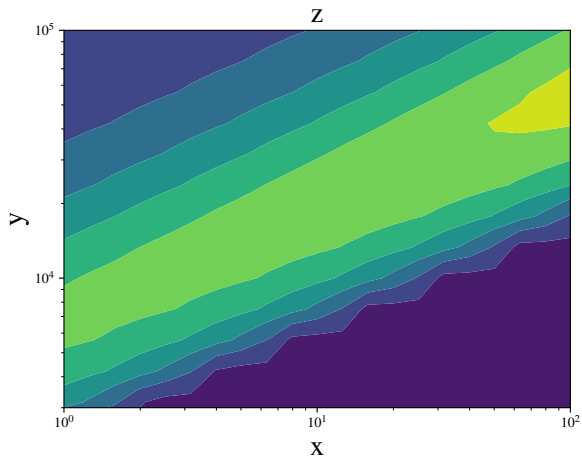
# Simple contours



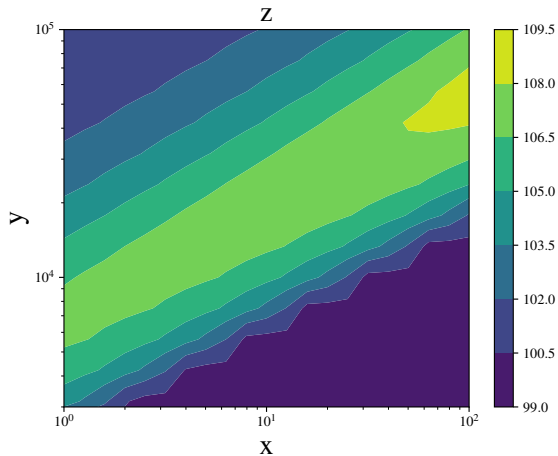
```
plt.clf()
fig=plt.figure()
CS=plt.contour(x,y,z)
title('z',fontsize=20)
xlabel('x',fontsize=20)
ylabel('y',fontsize=20)
xscale('log')
yscale('log')
ylim(3.e3,1.e5)
plt.savefig('plot6.pdf')
plt.close()
```



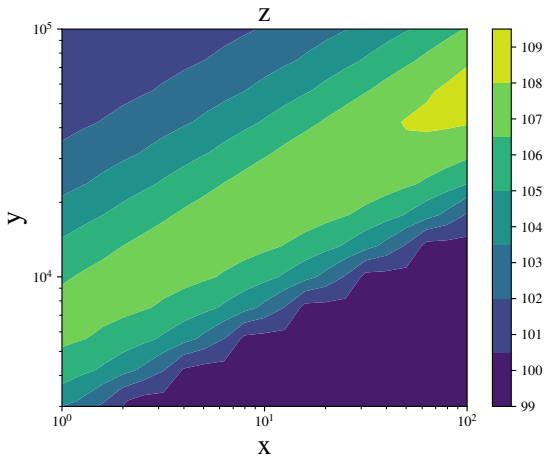
```
CS=plt.contour(x,y,z)
plt.clabel(CS, inline=1, fontsize=10)
```



$CS = \text{plt.contourf}(x, y, z)$



```
CS=plt.contourf(x,y,z)
cbar = plt.colorbar(CS)
```

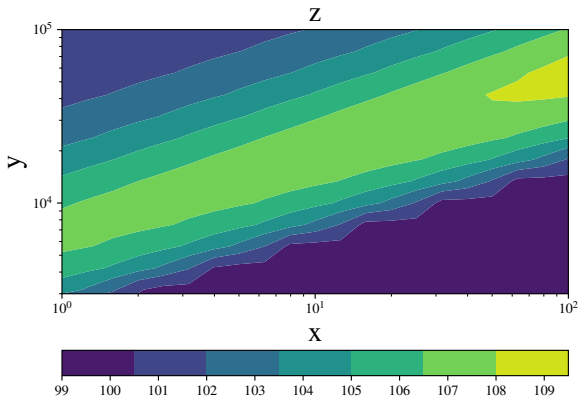


```
ticks1=np.arange(99.,110.,1.)
```

```
...
```

```
CS=plt.contourf(x,y,z)
```

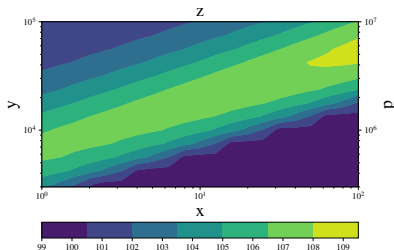
```
cbar = plt.colorbar(CS,ticks=ticks1)
```



```
CS=plt.contourf(x,y,z)
cbar = plt.colorbar(CS,ticks=ticks1,orientation='horizontal')
```

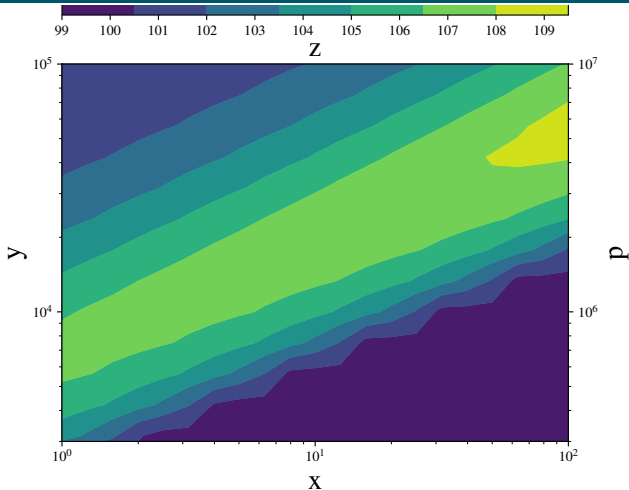


# Simple contours



```
ax = fig.add_subplot(111)
CS=ax.contourf(x, y, z)
cbar = plt.colorbar(...)
ax2 = ax.twinx()
ax2.contourf(x, p, z)
title('z',fontsize=20)
ax.set_xlabel('x',fontsize=20)
```

```
ax.set_ylabel('y',fontsize=20)
ax.set_ylim(3.e3,1.e5)
ax2.set_ylabel('p',fontsize=20)
ax2.set_xscale('log')
ax.set_yscale('log')
ax2.set_yscale('log')
ax2.set_ylim(3.e5,1.e7)
```

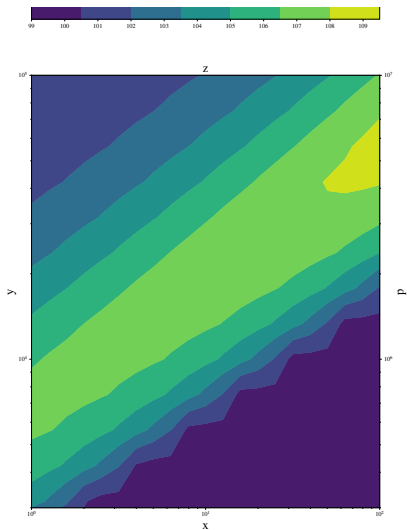


```
CS=ax.contourf(x, y, z)
```

```
p0 = ax.get_position().get_points().flatten()
```

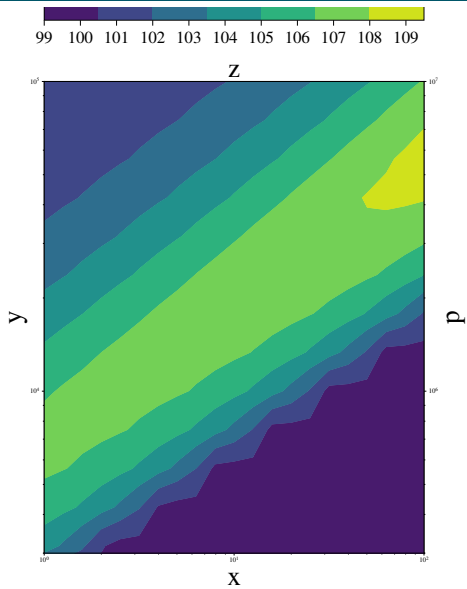
```
ax_cbar = fig.add_axes([p0[0], p0[3]+0.1, p0[2]-0.125, 0.05])
```

```
cbar = plt.colorbar(CS,cax=ax_cbar,ticks=ticks1,orientation='horiz')
```

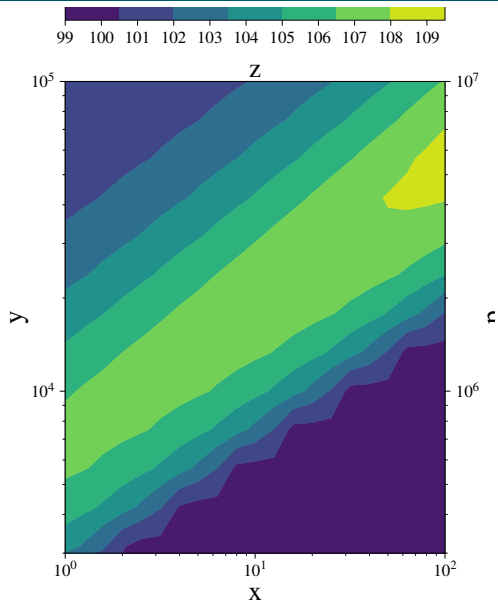


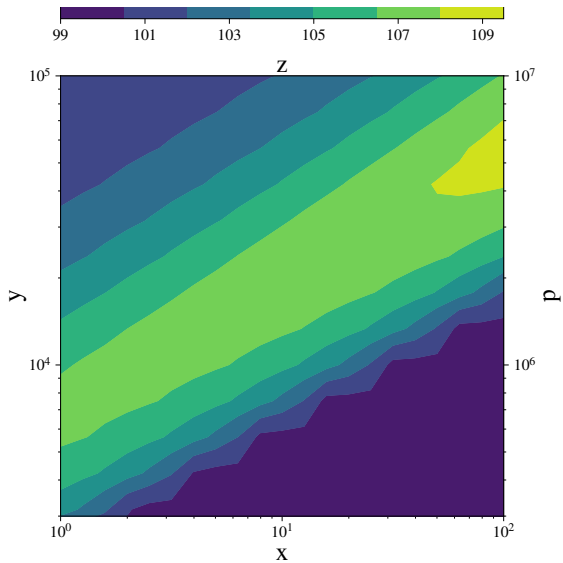
`fig.set_size_inches(10., 12.5)`

```
...
cbar =
plt.colorbar(CS,cax=ax_cbar,ticks=ticks1,orientation='horizontal')
tick_params(labelsize=25, length=8, width=1.0, which='major',
pad=8)
tick_params(labelsize=25, length=4, width=1.0, which='minor',
pad=8)
...
title('z',fontsize=40)
ax.set_xlabel('x',fontsize=40)
ax.set_ylabel('y',fontsize=40)
ax2.set_ylabel('p',fontsize=40)
```

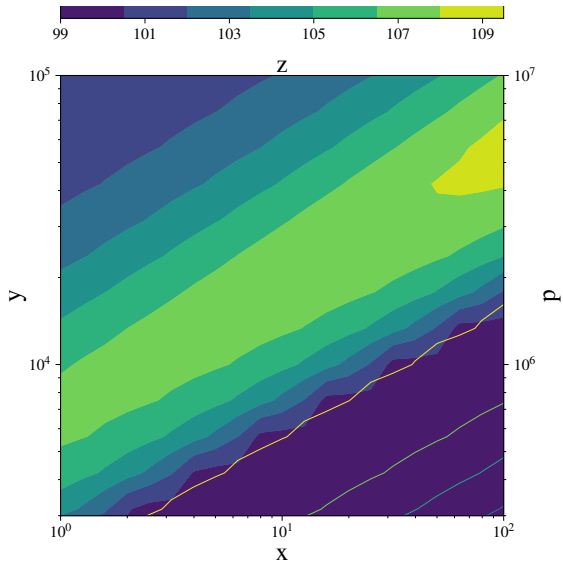


```
ax.tick_params(labelsize=25, length=8, width=1.0, which='major',  
pad=8) ax.tick_params(labelsize=25, length=4, width=1.0,  
which='minor', pad=8) ...  
plt.close()  
ax2.tick_params(labelsize=25, length=8, width=1.0, which='major',  
pad=8) ax2.tick_params(labelsize=25, length=4, width=1.0,  
which='minor', pad=8) ...  
plt.close()
```

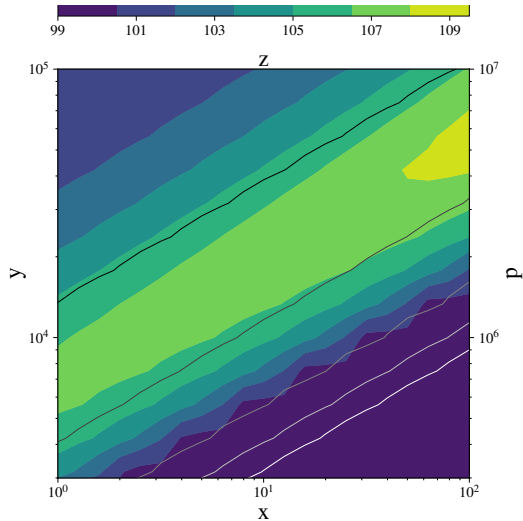




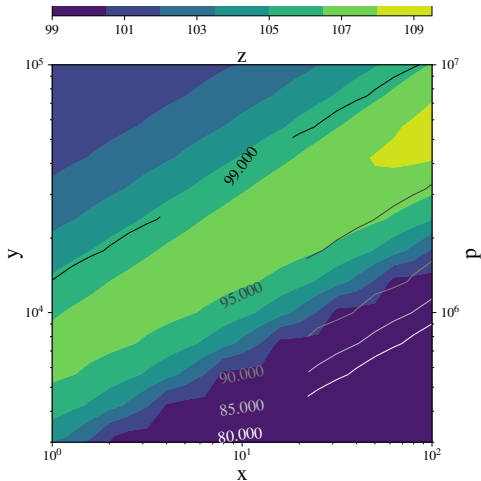




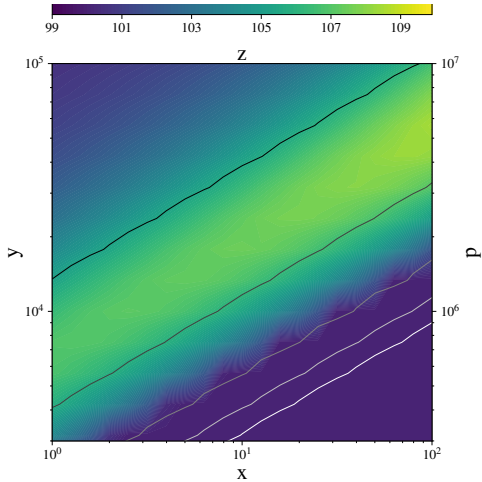
`CS1=ax2.contour(x, p, z1)`



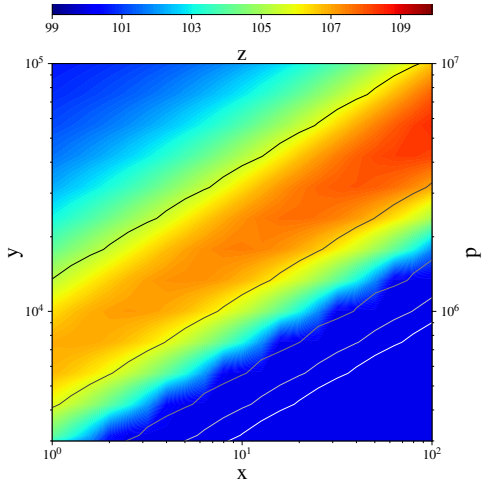
```
CS1=ax2.contour(x, y*100., z1,levels=levs1,colors=('1', '0.75',
'0.50','0.25','0'))
```



```
CS1=ax2.contour(x, y*100., z1,levels=levs1,colors=('1', '0.75',
                                                    '0.50','0.25','0'))
ax2.clabel(CS1, inline=1, fontsize=30)
```



```
levmd=np.arange(99.,110.,0.1)
CS=ax.contourf(x, y, z,levels=levmd)
```



`CS=ax.contourf(x, y, z, levels=levmd, cmap='jet')`  
<https://matplotlib.org/users/colormaps.html>