import the libraries

In [1]:

```
import os,sys
import matplotlib.pyplot as plt
sys.path.append('./../../../open_AR_Sandbox')
import sandbox.sandbox as sb
```

```
Freenect module not found, KinectV1 will not work.

./../../../open_AR_Sandbox\sandbox\sandbox.py:51: UserWarning: gempy not f
ound, GeoMap Module will not work
  warn('gempy not found, GeoMap Module will not work')
```

Setup the projector and Sensor and load a calibration

In [2]:

```
calib = sb.CalibrationData(file = "farming_calibration.json")
sensor = sb.KinectV2(calib)
projector = sb.Projector(calib)
```

```
JSON configuration loaded.
KinectV2 initialized.


Projector initialized and server started.
Please position the browser window accordingly and enter fullscreen!
```

In [3]:

```
module = sb.TopoModule(calib,sensor,projector)
module.setup()
```

start prototyping

In [7]:

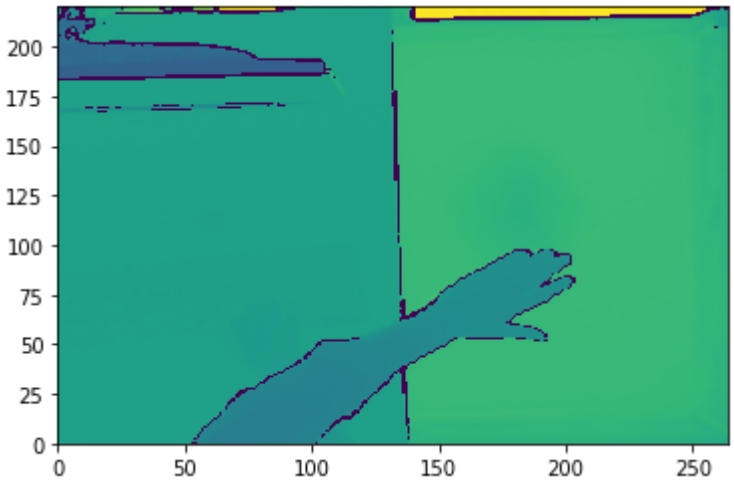
```
depth = sensor.get_frame()
cropped_depth = module.crop_frame(depth)
```

In [8]:

```
plt.pcolormesh(cropped_depth)
```

Out[8]:

```
<matplotlib.collections.QuadMesh at 0x1ab99d759c8>
```



start the runtime loop

In [ ]:

```
module.run()
```